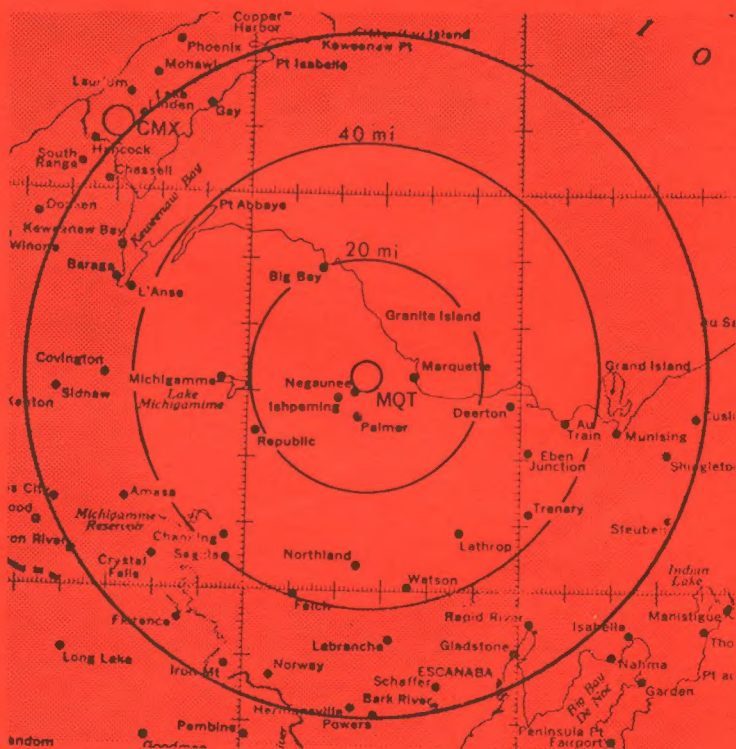


# VHF-UHF DIGEST

A Public Service Providing  
DIRECT WEATHER INFORMATION  
U.S. DEPARTMENT OF COMMERCE  
NATIONAL WEATHER SERVICE

JUNE 1975

## NOAA WEATHER RADIO Station KIG-66 Freq. 162.55MHz MARQUETTE BROADCAST AREA



# **publishers' notes...**

**WTFDA HEADQUARTERS, P.O. BOX 163, DEERFIELD, IL 60015 USA**

**HELP WANTED...**a volunteer to take over the SOUTHERN FM DX column is needed immediately. As we are entering into peak E-skip months, we would like to be able to fill this post with no more than a one month's lapse. Naturally we would prefer an editor from the Southern reporting area (East of the Mississippi and south of the Mason-Dixon line). However, those of you from other areas who have voiced interest in doing a column will be given first consideration if we have no southern-area volunteers ten days after receipt of this issue. Please send a brief type-written note to Don Ruland, 4448 68th Place, Kenosha, WI 53140 if you are interested. A special note of thanks to Ted Fleischaker of Louisville, KY for his past efforts with the SOUTHERN FM DX column.

**MORE HELP WANTED...**likewise, we will be needing a new editor for the WESTERN FM DX column, effective with the August VUD. Roger Morie has done a fine job with the column, and will be writing his final column next month. Again, contact Don Ruland if you'd like to assume Roger's job...westerners (west of the big muddy, that is) get first crack. But we would like to continue this important column uninterrupted if at all possible, so don't delay.

**NEW MEMBERSHIP DUES...**the past few issues of the VUD have erroneously shown the dues on the back cover as \$9.00. This of course should have read \$11.00, and is corrected on this month's back cover (overseas rate of \$16.00 has been correctly stated).

**PHOTO-NEWS...**this column will not appear again this month due to the extra workload of final exams on editor Jim Alexander. Please send all future materials for this column to Jim at 8 Court Knolle, New Hartford, NY 13413. Incidentally, Jim mentions a very useful brochure is available from Eastman Kodak on "How to Photograph TV Pictures". It is free...simply write to Eastman Kodak Co., Consumer Markets Division, Rochester, NY 14650, and request same.

**CONVENTION NEWS...**the latest on the 1975 WTFDA convention to be hosted by Ken Simon in West Palm Beach can be found on page 4. Make your plans now!

**TV STATION GUIDE...**an additional page for the new WTFDA TV Station Guide has been published, entitled "Using the WTFDA TV Station Guide". The more recent mailings include this page; however, if yours does not, simply send a SASE to Deerfield HQ and we will promptly forward the additional page free of charge.



# WTFDA MAILBOX



John Zondlo  
608 N. Martin  
Muncie, IN 47303

Greetings. Should be a short column this month so here goes.....

Michael J. Albanese	917 Rosehill Dr.	Altoona, PA 16602
Robert B. Babut	858 The Circle	Lewiston, NY 14092
Bill P. Bledsaw	1700 N. 33rd St.	Decatur, IL 62526
Alan Davenport	31 Madison Dr.	Ogdensburg, NJ 07439
Kjell O. Hanssen	Laskenvn. 85	N-3200 Sandefjord, Norway
Bill Harrison	2124 Saranac St.	Adelphi, MD 20783
Dean Niemi	308 N. 60 Ave. W.	Duluth, MN 55807
Philip M. Ownbey	1365-A Lacrosse	RSA, AL 35808
Ted Pinski	747 Kipling Dr.	Toledo, OH 43612
Roger Sabella	Box 309	Oak Lawn, IL 60454

Renewals: Bill Bens, Rolf Blödnorn, Michael F. Collins, Richard Peary,  
John Ray and Robert J. Williams.

New Address: Bill Bens-2114 Wealdwood Ct.-Kirkwood, MO 63122

Computer operator MICHAEL J. ALBANESE enjoys all areas of DX. His gear consists of a Realistic TM-1000 FM tuner and a Patrolman Pro-2B VHF Monitor receiver. Michael is also a member of NRC and NNRC.

Decatur member BILL BLEDSAW pursues DX with a Realistic DX-160 receiver and a Pro-7A scanner.

ALAN DAVENPORT is a restaurant cook whose DX interests include BCB, SW, FM and TV. A member of the National Radio Club, his shack features a Panasonic 19" B&W TV, a Channel Master 6256 AM-FM, PSB hi. lo. and a GE AM, FM, PSB hi. lo.

From the land of fjords comes KJELL HANSSEN, a 19 year old student. A visit to Kjell's shack would find him tracking down DX on a Tandberg Huldre 9 receiver. He is also a member of the DX Listeners club of Norway.

Primarily interested in FM, PHILIP OWNBEY DX's with a McIntosh MR78 tuner connected to a Finco FM10 antenna with a rotor.

Shortwave DXer TED PINSKI is delving into the FM-TV DX area using a Channel Master antenna mounted on a 50 foot tower. Ted is anxious to receive your tips on receiving those long distance stations. Also, if you've had much experience with amplifiers, he'd like to know which ones are the best.

ROGER SABELLA is a salesman who's interested mainly in BCB and FM DXing. Also a member of NRC, Roger spins the dials with an Ampex ASR-100 and a Toshiba IC-70.

Tidbits.....

Renewing member Richard Peary tells us that his equipment includes an RCA color TV, a Magnavox stereo and a Regency scanner.

ANARC Executive Secretary Dave Browne had some favorable comments about WTFDA recently. "I enjoy your monthly bulletin and believe it is one of the best edited that I have had the pleasure of reading," wrote Dave. Riverside, California member Iden B. Rogers posed some rather interesting thoughts in a letter received here recently. His DX interest is focused on the 30-50, 150-175 and 450-470 MHz bands. I'm reprinting his comments here so that you can form your own opinion on them and possibly write him with your comments----

"Each of us has his own special interests and mine are: 1) attempting to be knowledgeable about the local systems in my area, 2) improving my receivers and antennas in an effort to receive a maximum number of mobile units that are in communication with local base stations, and 3) listening to message content. My listening is focused mostly on law enforcement and fire/forestry but also includes road departments, trains, and a number of others. The hobby as I pursue it, needless to say, is different from those who seek DX and/or QSL's.

At this point I must ask, does the WTFDA welcome serious "monitor" enthusiasts and are the pages of the VUD open to them or is the club limited to the DX and QSL aspects of the hobby? If the club is open to them it is not apparent either in the VUD or in the ANARC descriptions of affiliated clubs. Perhaps the club is overlooking a source of memberships by not actively seeking serious monitor enthusiasts. By "serious" I mean those who have progressed beyond the stage of a single scanner receiver with its indoor telescoping antenna and who are also interested in the technical aspects of reception.

I would be interested to know the club's position with regard to monitor enthusiasts and would also like to hear from others who pursue the hobby as I do."

Well, that about wraps it up. See y'all soon.....

#### WORLDWIDE TV FM-DX ASSOCIATION

Serving the  
VHF-UHF DX  
Enthusiast



1 MAY 1975

#### CONVENTION NEWS

As convention time nears, a small change in location must be made. The new convention site will be WEST PALM BEACH, FL. AUG 1-3.

The headquarters hotel will be the downtown HOLIDAY INN and I'm told we'll have most of the fifth floor.

#### SPECIAL RATES will be:

Single \$14	Double \$18
Triple \$22	4-In-Room \$26

(The 4-in-room rate amounts to \$6.50 a day per person!)

The weatherman promises sun and temperatures in the 80s so bring your sun tan oil and swim trunks. There is a pool at the hotel.

Now with NO-FRILLS air fare and many other attractions here in the Sunshine State....**PLAN TO BE THERE! THIS IS THE ONE THEY'LL TALK ABOUT FOR YEARS!**

FOR CONVENTION AND RESERVATION INFORMATION, write me.

**Your attention, please!**

73s & BCing U

*Ken*

KEN SIMON, conv. chairman  
528 PILGRIM Rd.  
West Palm Beach FL 33405  
305-585-7415







WNAP 93.1 Indianapolis will be seeking to move to Indy's tallest building, the Indiana National Bank Building, at about 500'. WCLR 101.9 Skokie-Chicago's SCA is not on very often but on April 6, the station carried items concerning a Mormon Church conference.

More format news: WEMD-FM 96.7 Easton MD is m; WHDG 103.7 Havre de Grace MD is gk. WJLK-FM 94.3 Asbury Park NJ now rock. WSUS 102.3 Franklin NJ supposedly now all country; WDWL-FM 92.1 Vineland NJ soul; WHUC-FM 93.5 Hudson NY rock, as is WKAL-FM 95.9 Rome NY. WIGS-FM 92.7 Gouverneur NY k; WDCG 105.1 Durham NC k; WRQK 98.7 Greensboro NC k; WZPR 100.3 Meadville PA m; WVAF 99.9 Charleston WV rock, "it does very well covering Charleston and Huntington." WKLP-FM 94.1 Keyser WV is k, apparently not \$tereo. WSME-FM 92.1 Sanford ME is, rock, \$. Visitors are welcome any time at WGTB \*90.1, r, Washington DC, where Andy Smith now works; and they answer the phone 24 hours a day: 202-625-4237. WKKM 92.1 Harrison MI, new on the air, is country music and not stereo.

The SCA for KCRC-FM 96.9 Enid OK is Muzak. KFNB 101.9 now operating in Oklahoma City with v. WQUE 93.3 New Orleans has abandoned beautiful music for rock. KVFG \*91.5 Thibodaux LA has cut back hours to 4 pm-midnight after trouble with students who ran it from 7 am-midnight.

KXEL-FM 105.7 Waterloo back on the air, but apparently with a shorter tower and a signal worse than before they lost the top part of their tower in a recent storm. KRSW \*91.7 Pipestone MN still off the air. WWJO 98.1 St. Cloud MN says their tower is 4 miles east of Rice MN (north of St. Cloud), and their studio-transmitter link has only eight watts! KMRE 95.3 Dumas TX now m; may be \$; KLRF 104.9 Emporia KS now rock; both may have converted to \$. Check on it, please!

WDUQ \*90.5 Pittsburgh PA now back on the air with its full power of 25000 h,v; 476', after being on reduced power with antenna damage for seven months.

KWST 105.9 Los Angeles now progressive rock, calling self "K-West." KLVE ("K-Love") 107.5 Los Angeles now light rock and pop (rm), XHIS 90.3 Tijuana now soul music ("FM-90"), while XHERS 104.5 Tijuana is Spanish-Latin music. KDJW-FM 94.1 Amarillo TX now country music. KSAQ 100.3 San Antonio now rock.

The new KBHL 95.3 Lincoln NE is \$ and 100% religious. KMEZ 96.5 Grand Island Ne not on yet. On in \$: WXEN 106.5 Cleveland and WKSU \*89.7 Kent, both OH. WDMT 107.9 Cleveland now upbeat popular with live announcers. WWWM 105.7 Cleveland now progressive rock, dropping NBC. A list of affiliates of the National Black Network was sent by Mike Collins, and includes such stations as WEDR 99.1 Miami, WENN-FM 107.7 Birmingham (having dropped Mutual's Black Net.), WAMO-FM 105.9 Pittsburgh PA, WTLC 105.7 Indianapolis, WVKO-FM 94.7 Columbus OH, WDAO 107.7 Dayton (apparently also keeping their affiliation with ABC Contemporary), WWWZ 93.5 Summerville (Charleston) SC, WEAS-FM 93.1 Savannah GA, WOKN 102.3 Goldsboro NC, WBAD 94.3 Leland (Greenville) MS, WVNS 95.9 Tuskegee AL, WIPE 94.3 Americus GA, and WWWS 107.1 in Saginaw MI. With WHAS-FM 97.5 Louisville KY about to drop classical in favor of all news and the new NN network, it leaves only the two library stations WFPK and WFPL for this sort of programming, but the stereo will be lost, as neither of the others has \$. KHKE Cedar Falls IA is announcing in its program guide that it will soon move from 88.1 to \*89.5 with 8000 h,v; 410' and add Stereo! Their transmitter is near Washburn IA. KHKE is the lower-powered sister to KUNI \*90.9. WHOM-FM 92.3 New York now rock, \$ (English) from 1 or 2 am until noon!

Late news is that WQIV 104.3 New York may revert to the classical format that 104.3 there had as WNCN. Present owners tired of fighting the former WNCN audience, plan to sell to a buyer that will again offer 24 hours-per-day stereo classics. Personally, I'm surprised WQIV ever made it on the air with their rock format in view of the almost overwhelming opposition to the switch.

WSND \*88.9 Notre Dame IN rock after midnights until about 0400. American Motors' car FM radios have a local-distant switch that adds about 25 miles to higher-powered stations (booster?), but there's a cross-mod problem in Chicago with WLAK over the low end of the dial. An outfit has applied for E. Gary IN with 21300 watts at about 700'; that would be a monster [and might interfere with WMBI-FM]. WBFO \*88.7 stymied for higher power by channel 6 stations (originally CBLT in Toronto, now probably CKGN-6 Paris, Ont.); WBFO is Buffalo's public radio station; may go DA. WHRS \*91.7 Boynton Beach FL hopes for 36000 w (rather than 3kw) to better serve Latin groups.

WQSU \*88.9 Selinsgrove PA now getting out well with its new transmitter; mostly rock. CONTRIBUTORS THIS ISSUE: Robert Baker, Humboldt IA; Ed Barbont, Norristown PA; Waldo Bishop, Tallahassee FL; E. Scott Bryce, KVCB (FM) St. Cloud MN; Dick Clark, Pittsburgh PA; Mike Collins, Hartford CT; Tom Cornell, Kokomo IN; John Czarnowski, Staten Island NY; Wm. Dickerman, Williamsport PA; Mike Dornier, Metairie LA; John Ebeling, Bloomington MN; Al Ellis, Brantford, Ont.; George Diller, WTAN-FM Clearwater FL; Pat Dyer, San Antonio TX; Bill Falt, Cleveland OH; Ted Fleischaker, Louisville KY; Paul L. Gaines, Detroit MI; Glenn Hauser, Enid OK; James Hughes, Mt. Pleasant MI; David Kurman, WPRB Princeton NJ; Mark S. Lucas, Lancaster OH; Paul Petosky, Munising MI; Marv Robbins, Omaha NE; Ken Simon, Ft. Lauderdale FL; Andy Smith, Hyattsville MD; Terry A. Stripsky, KQRS-FM Golden Valley MN; Bill Thompson, Buffalo; R.W. Winsor, Valparaiso IN; S. Wiseblood, Santa Maria CA.



# FCC-FM

## Formats, Networks, Etc.

CA San Francisco KNBR-FM 99.7 to NN no \$  
[NN is NBC's new National News service  
for fulltime all-news and all-talk sta-  
tions; also to affiliate with WWS (for-  
mer WNBC-FM) 97.1 New York and WHAS-FM  
97.5 Louisville KY, WHAS-FM dropping  
classical, and probably \$, going 24 hrs.  
DC Washington 99.9 WKYS rock, \$; still N?  
IL Arlington Heights WMMW 92.7 jazz  
IL Chicago WHPK \*88.3 rj: WJOL 101.1 to  
NN, probably dropping \$  
IL Downers Grove WDCG \*88.3 m  
IN Lafayette WXUS 92.7 m; NBC for ABC-FM  
IN Monticello WTVL 95.3 ABC-FM  
ME Portland WDCS 97.9 Dotby 500' (50 kw h,  
v; gc). PA Jenkintown WJBF-FM 103.9 to  
ABC-ENTERTAINMENT; v; mono.  
MO St. Louis KKSS 107.7 soft, \$  
NC Chapel Hill WNCN 97.5 to go \$; c[soon  
MO Clayton KFUD-FM 99.1 all classical; \$  
GA Gainesville WDOH-FM 106.7 \$ to m-o-r.  
LA New Orleans 98.5 WYLD-FM on air with  
soft music; replaces WIXO. (CALLS, too.)  
SD Sioux Falls KIOV 104.7 \$, country  
UT Orangeville K22IAH 92.1 \$ New FM  
translator granted to relay KSOP-FM  
104.3 Salt Lake City UT.  
Stereo Added (Cont. from Column 2)  
TX Nacogdoches KSFA-FM 92.1, r  
VT Putney WVUS \*88.9, r  
VA Lynchburg WGLT 99.3  
WA Clarkston KCLT-FM 94.1, k  
WA Sunnyside KWEM-FM 96.7, r  
WV Clarksburg WPDZ-FM 104.9

## Stereo Added, or to Go Stereo:

CA Santa Barbara KCSB \*91.5; also has  
occasional morning ABC-FM newscasts  
CO Greeley KUNC \*91.5  
IL Carlinville W181 \*91.1  
IL Flossmoor WHFH \*88.5, rock  
KS Salina KYEZ 93.7  
MI Greenville WPLB-FM 107.3 m  
MN Thief River Falls KAVS \*89.5  
NE Grand Island KMEZ 96.5  
NC Hendersonville WKTT 102.5 k, ABC-FM  
OH Cleveland WXEN 106.5  
OH Wilberforce WCSU-FM \*88.9  
LA Golden Meadow KLEB-FM 94.3 resumes \$  
OH E. Liverpool WELA 104.3, k  
NV Morgantown WCLG-FM 100.1, \$  
AR Berryville KAAM 107.1 km  
GA Rosville WOLF 105.5 gk  
GA Tifton WCLP-FM 100.3 m  
Valdosta GA WAFB 101.1 [WEPQ-FM's format?  
IL Harrisburg WBEQ-FM 99.9. Anybody know/  
KY Barbourville WYKY-FM 93.5, r  
KY Corbin WCTT-FM 107.1 v, mk  
KY Paducah WPAD-FM 96.9, m  
ME Lincoln WLMN-FM 99.3  
MI Adrian WABJ-FM 95.3  
MI Three Rivers WLMK-FM 95.9, m  
MS Aberdeen WHAY 105.5  
MS Waynesboro WABO-FM 105.5  
MO Lebanon KJEL-FM 103.7  
MT Billings KOYN-FM 93.3  
NE Nebraska City KNCY-FM 97.7, m  
NH Portsmouth WHEB-FM 100.3  
NC Buie's Creek WCEC \*90.1, m  
NC Moyock WJLY 92.1, rock

MA Orleans  
WVLC-FM  
104.7, m  
WV Prince-  
ton  
FM 95.9  
TN Murfrees-  
boro WMTS-  
FM 96.3, m  
OH Mid-  
dleport  
WMPQ-FM  
92.1, k  
RI Mid-  
dleport  
WCTB 107.3  
TN Cocke-  
ville  
WPTN-FM  
94.3

June, 1975

Note: Most of the preceding information  
on stereo gathered from the 1975 Broad-  
casting Yearbook, and may be erroneous.  
I have also checked through BY75 for  
FM program format and network changes,  
and have questions on some stations  
which maybe some of you can clear up.  
FM Format "Mysteries" Help!

AL Mobile WKRG-FM 99.9 listed as rock  
CA Fresno KARM-FM 101.9 " " all-  
news; have they dropped \$, too?  
CA Gilroy KFAT 94.3 k, with some L,  
Spanish music, now?  
IL Flora WFOI 103.9 m or k?  
MO Annapolis WNAV-FM 99.1 Stereo?  
MN Red Wing KCUE-FM 105.5 Stereo?  
NY Poughkeepsie WSPK 104.7 now  
adult rock, or still m?  
OK Pryor KKMA 104.5 m or g?  
RI Providence WPRO-FM 92.3 m or r?  
SC Columbia WDCS-FM 97.9 k or r?  
RI Wiscasset WWOH-FM 106.3 mor?  
Format abbreviations, of course, are  
the same as in the FM Atlas: c=classical;  
m=middle of the road ["schmaltz"];  
r=rock; k=country; g=gospel; L=  
Latin American music (rancheros, etc.).  
Temple TX 104.9 in Atlas is KYLE  
(correct error). ND Minot 93.7 is  
KMOT-FM, not KMOT-FM.  
Apparently resuming stereo is KBIM-FM  
Roswell NM 94.9. KLBK-FM 93.7 Lubbock  
TX still listed as \$, but believed not  
to be using stereo. KSIX-FM 93.9 in  
Corpus Christi seemingly quit \$, too.

## Members' Reports and FM News

WDSD 94.7 Dover DE now k; WWDW 96.5 Philadelphia to all talk, dropping \$, except for a very  
few weekly musical shows; WMMR 93.3 Philadelphia adds Dolby transmitting equipment. From  
the Dolby Labs I have received a current list of nearly 100 stations so equipped, and have key-  
punched these data to my FM deck. Not heard in 2 years: WRHS \*88.1 Park Forest IL; deleted? WKOC \*88.3 Kankakee IL  
seems to be inactive, too.

Two Michigan DXers sent information about a plane crashing into a guy wire for the new WJGS  
98.5 Houghton Lake MI tower, but the original story from the news service had WJGS' call letters  
wrong. WJIM-TV channel 6 Lansing MI is running slides saying: "Ann Arbor viewers! If your  
channel 6 TV reception is affected call 761-4300 or write WCBN-FM" Ann Arbor MI. WCBN is  
temporarily operating with 10 watts on \*88.3, instead of \*89.5. If no interference is shown by  
this operation, WCBN will shift permanently, permitting WEMU Ypsilanti to change frequencies  
and increase power. One person, incidentally, was killed in the plane-contacting-tower-wire mishap.  
WRCT \*88.3 Pittsburgh PA is rock; WGMW 94.3 Riviera Beach FL is \$, m; WJNO-FM 97.9 in  
Palm Beach FL now rock, \$. Broadcasting Yearbook still has some major errors: Long-deleted  
WRTM 102.3 Blountstown FL and WPBA 107.1 Palm Bay FL are listed; WVUS (FM) \*88.9 Putney  
VT as 37.3 kw, instead of 10 watts (or unofficially, 37.3 watts).

Off the air: WRPM-FM 107.9 Poplarville MS; storm took their tower. Mike Dorner's newest  
FM progress report is due out in June. "Featured are details on the recessionary  
impact on FM growth and a study of FM translators, as well as FM growth in the  
Rockies and southwest." Order from him at 1409 Hymelia Ave., Metairie LA 70003. Send him 40¢ Cheap!

WPAP 92.5 Panama City FL boasts they have the tallest antenna in FL, blanketing the lower  
west coast of FL, with a local-like signal in Sarasota. Station KQRS-FM 92.5 Golden Valley MN  
announces plans to broadcast occasional "test patterns" of audio tones for DXers and stereo lis-  
teners, with sequences announced. These will be conducted early Monday mornings at 3 to 6  
month intervals. I will try to obtain an advance list of dates and times and will pass these on.

WDHS Gaston IN heard on 91.1, they frequency for which they have applied, but the FCC says  
WDHS is still only permitted to be on 90.9. WMHE 92.5 Toledo now rock: "Rock has arrived."  
WCMX 101.7 Fort Wayne has ABC on its SCA. WJAI 92.9 Eaton OH may be \$, but we're not sure.

40¢  
Cheap!



# TV RECEIVERS OF THE FUTURE

## PART II

by Morrie Goldman

In the March VUD, we left off by saying that future TV receivers should be delivering higher selectivity because of changes in I-F stage design. As you will recall, the I-F stages supply most receiver selectivity. We are about to enter the same sort of design revolution that brought crystal, ceramic, and L-C filters into wide use is FM receiver I-F stages. This time, it's TV receivers, and the I-F filters will be of the L-C and surface wave types.

The first commercial television set to employ an I-F filter as a discrete I-F transformer replacement was the Heath GR-2000. The GR-2000 uses a high Q L-C filter, providing higher adjacent channel rejection than did earlier conventional Heath sets. A comparison of the I-F response curves of two television receivers is shown in Figures 1A and 1B. Both receivers use identical tuners, but the receiver checked in Figure 1A uses a conventional I-F system while Figure 1B is the I-F response of a receiver using an L-C (and IC) I-F system. Note that the trouble some adjacent channel sound frequency is much more suppressed in Figure 1B. The overall response is also much smoother, with very high ultimate adjacent channel rejection. Another advantage of the L-C filter (as with other filters) is that realignment is never needed.

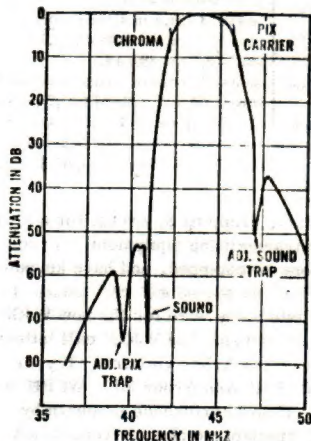


FIGURE 1A IF Selectivity of a Modern High Quality Color Television Receiver

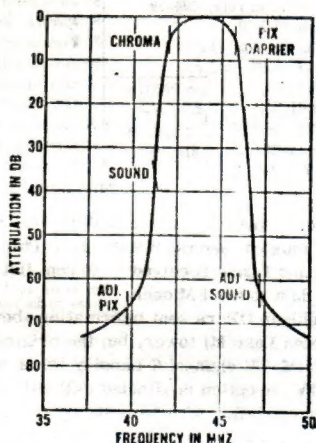


FIGURE 1B IF Selectivity of a Receiver Using Bandpass Filter IF System

An L-C filter, such as the one used in the GR-2000, can be combined with a high gain integrated circuit to make up a very simple I-F system. Figure 2 shows such a circuit.  $Q_1$  provides I-F signal preamplification before entering the lossy L-C filter. The filter provides selectivity and bandpass shaping, while IC<sub>1</sub> greatly amplifies the I-F signal.  $T_1$  is a broadly tuned coil, intended to attenuate spurious signals generated in IC<sub>1</sub> and to provide matching.

It is worth noting that while the I-F strip of the GR-2000 is excellent, the preset channel-position varactor diode tuner is not well suited for DXing. The Heath GR-500 and GR-400 receivers use the same I-F system, but with more conventional tuners. In fact the VHF tuner used in these two sets is said to be of very high performance.

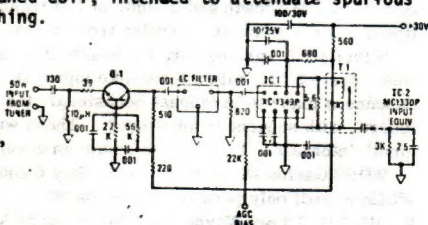


FIGURE 2 Schematic Diagram of IF Amplifier Showing



While new models from other manufacturers are still using discrete I-F strips, those manufacturers aren't "letting the world pass by." Most are foreseeing the use of (now) low cost "surface wave filters" (or abbreviated, SAW filters) in the very near future. The operation of a surface wave filter is not easily visualized, but very basically, the filtering involves the piezoelectric conversion of the electromagnetic I-F signal to ultrasonic waves, and reversion to electromagnetic waves. The filter operates on the ultrasonic waves. A simplified diagram of a SAW filter is shown in Figure 3. A piezoelectric material is used as the base (most common is lithium niobate). The Transmitter and Receiver transducers of the filter are deposited thin film aluminum. It is the design of the transmitter and receiver transducers that determines the filter's selectivity. Their designs form "interdigital combs" which shape the acoustic waves.

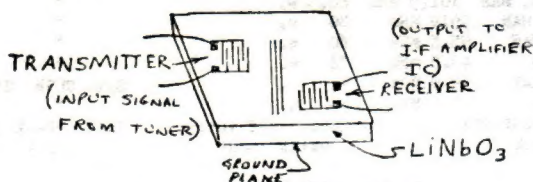


Figure 3. Simplified view of SAW filter for TV I-F use.

Lithium niobate I-F filters for TV receivers are now creating a great deal of excitement among TV receiver manufacturers. The main reason for the excitement is the anticipated cost savings. According to Crystal Technology Inc., they will soon be selling production quantities of TV SAW filters at a cost of less than \$2 each! This component cost savings coupled with the reduced labor costs (alignment not required) will add up to a substantial cost savings. Size is also a significant factor. While the Heath L-C filter measures about 5" long, the SAW filter could be about 1" long! At this time, SAW filters do not appear to provide superior selectivity to L-C filters, but are improvements over most conventional I-F stages.

Introduction of television receivers using SAW filters could come as early as mid 1976 and even earlier in Europe. Zenith and Sylvania have done extensive testing of TV SAW filters, and it is likely that they may be among the first manufacturers to introduce the new device.

If you're planning to buy a TV set in the next few months (and plan to use it for DXing), look only at sets having at least three IF stages. Also look for defeatable AFC, and a tuning system that allows you to freely and accurately tune all 82 channels. If you're visiting a dealers showroom, try out as many different sets as possible. Flip by the open channels to check for best selectivity and sensitivity. Three brands that have proved popular with DXers are Zenith, RCA, and Sharp.

In conclusion, for the first time in many years, we should soon be seeing TV receivers with improved selectivity. At the same time, receiver noise figure and gain (sensitivity), and overload immunity, will continue to improve. A greater use of varactor diode tuners and digital readout will also be appearing.

**NORTH OF THE BORDER:**

**FOR NEWS IN CANADIAN BROADCASTING**

**JUNE 1975**

**TV APPROVALS**

KITCHENER, ONT CBLFT-1 ch. 76 Auths: 133 kw. Props: 192 kw. Sat. CBLFT Toronto  
 LONDON, ONT CBLFT-2 ch. 40 Auths: 11.8 kw. Props: 26.5 kw. Sat. " Kitchener  
 CHATHAM, ONT CBLFT-3 ch. 48 Auths: 13.7 kw. Props: 15.2 kw. new site Sat. London  
 WINDSOR, ONT CBFT ch. 78 Auths: 133 kw. Props: 85.4 kw. new site Sat. Chatham  
 SUDBURY, ONT NEW CH. 19 62 kw. Sat. CICA-TV Toronto ch. 19 (CECA)  
 FLIN FLON, MAN NEW ch. 3 134 watts erp Sat. CBWFT Winnipeg ch. 3 (CBC FR)  
 THE PAS, MAN NEW ch. 6 134 watts Sat. " "  
 CHARLOTTETOWN, PEI CBCT ch. 13 Press: 62 kw. Props: 176 kw.

**FM APPROVALS**

NORTH BAY, ONT NEW 96.1 MHz 100 kw. omni Sat. CBL-AM Toronto (CBC-ENG AM)  
 NORTH BAY, ONT NEW 95.1 MHz 100 kw. omni Sat. CJBC Toronto (CBC-FR AM)  
 EASTERVILLE, MAN 95.5 MHz 40.5 watts Sat. CBW-AM Winnipeg (CBC-ENG AM)  
 GRAND RAPIDS, MAN 101.5 MHz 68.5 w. " "  
 MOOSE LAKE, MAN 99.9 MHz 80 w. " "  
 SNOW LAKE, MAN 95.5 MHz 60 w. " "  
 THE PAS, MAN 94.5 MHz 76 w. " "  
 FLIN FLON, MAN 99.9 MHz 76 w. Sat. CKSB St. Boniface (CBC-FR AM)  
 THE PAS, MAN 95.7 MHz 79 w. " "  
 ST. FABIAN-DE-PANET, PQ 96.5 MHz 832 watts Sat. CBV-AM Quebec (CBC-FR AM)  
 LA RONGE, SASK 105.1 MHz 80 watts omni Sat. CBK-AM Regina (CBC-ENG AM)

**TV APPLICATIONS**

VANCOUVER, BC for 3rd English service... ch. 26 102 kw. dir -by CITY-TV of Toronto;  
 ch. 10 46 kw. dir; ch. 10 83 kw. dir; ch. 10 285 kw. omni or ch. 26 675 kw. omni  
 PORT ALBERNI, BC ch. 3 NEW 550 watts dir Community access (Eng lang)  
 WINNIPEG, MAN CKND-TV ch. 9 Auths: 164 kw. Props: 222.5 kw. new site  
 REGINA, SASK new ch. 13 126 kw. dir. (CBC FR)  
 ROSEMARY, ALTA ch. 11 25.3 kw. dir. Sat. CBRT Calgary  
 CAMPBELLTON, NB ch. 4 32.5 kw. dir. Sat. CHSJ-TV St. John ???  
 NEWCASTLE-CHATHAM, NB ch. 6 11 kw. dir. Sat. CHSJ-TV St. John ???  
 TROIS RIVIERES, PQ ch. 8 5.12 kw. dir. French language  
 SHERRIDON, MAN ch. 7 1.377 kw. Sat. CBWT Winnipeg ch. 6  
 BEAVAL, SASK ch. 7 .469 kw. Sat. CBKST Saskatoon ch. 11  
 ILE A LA CROSSE, SASK ch. 9 .105 kw. Sat. " "  
 BUFFALO NARROWS, SASK ch. 11 .321 kw. Sat. " "  
 LECVILLE, SASK ch. 12 39.2 kw. Sat. " "  
 LA LOCHE, SASK ch. 13 .15 kw. Sat. " "  
 BEARN/FABRE, PQ ch. 9 .187 kw. dir. Sat. CKRN-TV Rouyn  
 JOUTEL, PQ ch. 12 .143 kw. dir. Sat. CJDG-TV Lithium Mines

**FM APPLICATIONS**

CALGARY, ALTA CHFM-FM Press: 11 kw. omni Props: 74 kw. h/v dir.  
 SUDBURY, ONT NEW 97.1 MHz 50 kw. Sat. CBC ENG AM  
 SUDBURY, ONT NEW 98.1 MHz 50 kw. Sat. CBC FR AM  
 CORNWALL, ONT NEW 95.5 MHz 3 kw. Sat. CBC-AM Ottawa (CBC ENG AM)  
 CORNWALL, ONT NEW 98.1 MHz 3 kw. Sat. CBCOF-AM Ottawa (CBC FR AM)  
 KINGSTON, ONT NEW 107.5 MHz 100 kw. Sat. CBC ENG AM  
 CAPE DORSET & IGLOOLIK, NWT both for 105.1 MHz 76 w. Sat. CBC ENG & Native Lang. via satell.  
 PANGNIRTUNG, ESKIMO PT., POND INLET, RESOLUTE, NWT -all for 105.1 MHz, 92 watts  
 All to be Sat. of CBC ENG AM & new Native Language Northern Service via satellite  
 OTTAWA, ONT NEW 93.1 MHz 4.1 kw. Carleton Univ.  
 WINNIPEG, MAN NEW 101.5 MHz 3.8 kw. omni U. of Manitoba  
 SEPT-ILES, PQ NEW 98.1 MHz 96.75 kw. Sat. CBGA-AM Matane (CBC FR AM)  
 FT. GEORGE, FT. RUPERT, NOUVEAU COMPTOIR, PQ all for 105.1 MHz, 55 w. (CBC ENG & NLNS)  
 plus same locations- all for 103.5 MHz, 55 w. (CBC FR AM & NLNS via ANIK satellite)  
 MARKOVIC, LAB, Nfld NEW 99.5 MHz 30 w. Eng. & Inuit  
 BUFFALO NARROWS, SASK 103.5 MHz, 406 w. LA LOCHE 95.5 MHz, 81.7 w.;  
 BEAVAL 101.5 MHz 1.95 kw.; ILE A LA CROSSE 105.1 MHz 403 w. all Sat. CBK Regina  
 good dx to all... 73s Mark & Joel



# CTV STATIONS in Newfoundland

"DJ THE DJ"

DAVID J. EGAN

12a Andrew

Valleyfield, QB, J6S 3B2

As of September 1, 1974 the official call assignments for the Television Stations of the Newfoundland Broadcasting Company are as follows:

<u>CALL</u>	<u>LOCATION</u>	<u>CHANNEL</u>	(watts) <u>POWER</u>
CJON - TV	St. John's	6	62000
CJON - TV 1	Bonavista	10	250
CJON - TV 2	Cape Broyle	13	5
CJON - TV 3	Trepassey	10	5
CJON - TV 4	Signal Hill	10	5
CJON - TV 5	South Side Hill	2	5
CJON - TV 6	Clarenville	10	5
CJOX - TV	Argentia	3	6700
CJOX - TV 1	Grand Bank	2	7400
CJOX - TV 2	Lawn	10	5
CJOX - TV 3	St. Lawrence	10	5
CJOX - TV 4	Marystown	11	400
CJOX - TV 5	Terrenceville	10	5
CJOX - TV 6	Ramea	10	5
CJCN - TV	Grand Falls	4	26000
CJCN - TV 1	St. Albans	13	5
CJWN - TV	Corner Brook	10	410
CJWN - TV 1	Stephenville	4	800
CJWN - TV 2	Red Rocks	11	400
CJWN - TV 3	Deer Lake	7	5
CJWN - TV 4	Port Aux Basques	7	5
CJWN - TV 5	Pasadena	8	5
CJWN - TV 6	Irishtown	3	5

This list was sent to me along with a QSL card for reception of CJOX-TV 1 (ch. 2 Grand Bank) by Operations Manager JOHN TESSIER. All the stations and satellites above are affiliated with CTV.

# STATISTICS

JUNE  
1975

More UHF  
Records  
To Come

Editor:  
Glenn Hauser  
1312 West Oak  
Enid OK 73701

Call Location Miles DXer, Location Translator Primary/Logos

KBID- CA Fresno 150 Robert Cooper, Lafayette CA  
KAIL- CA Fresno 125 Randy Miltier, Campbell CA  
WATR- CT Waterbury 310 Art Collins, Buffalo NY  
tie Richard Nieman, Buffalo NY  
WEDN- CT Norwich 370 Robert Seybold, Dunkirk NY  
WKGB KY Bowling Green 700 Glenn Hauser, Franklin TX 77856  
W53AA NY New York 165 Tom Yingling, Dundalk MD  
WPGH PA Pittsburgh 430 Don Ruland, Kenosha WI  
WTVT VA Goldvein 650 Bill Draeb, Kewaunee WI

WPGH-TV  
53

WCBS-2

53  
WPGH-TV

KTEH- CA San José 185 Jim Pizzi, Orcutt CA  
WCVN KY Covington 410 Mark Lewis, Downsview ON  
tie Joel Rosenberg, Downsview ON  
WTON MI Lansing 285 Art Collins, Buffalo NY  
WMEG MI Muskegon 155 Bruce Metzner, Madison WI  
WQLN PA Erie 405 Bill Draeb, Kewaunee WI

## CHANNEL 55 TV DX RECORDS

WHYN- MA Springfield 340 Robert Seybold, Dunkirk NY  
K55AF ME Cozad 380 Robert Cooper, Arcadia OK  
WHP- PA Harrisburg 205 King Schafer, Kenmore NY  
tie Art Collins, Buffalo NY  
tie Richard & David Nieman, Buffalo NY  
K55AE TX Perryton 200 Robert Cooper, Arcadia OK  
K55AA TX San Angelo 185 Glenn Hauser, Von Ormy TX

KFDA 10  
KGIN-11

KFDA-10  
KTXS-12

WKBG- MA Boston 420 Mark Lewis, Downsview ON  
WTVS MI Detroit 900 Robert Cooper, Oklahoma City OK  
KPBC WA Lakewood Center 120 Mike Northam, Beaverton OR  
W56AB WI Darlington 115 Don Ruland, Kenosha WI

56

WKBG TV

WMTV-15

## CHANNEL 57 TV DX RECORDS

WKYH KY Hazard 545 Bill Draeb, Kewaunee WI  
WGBY MA Springfield 340 Robert Seybold, Dunkirk NY  
WKHX MI Saginaw 450 Don Voegelé, Lancaster PA  
WBGU OH Bowling Green 800 Robert Cooper, Arcadia OK  
W57AB NY New York 180 Gordon Nelson, Watertown MA  
K57AC TX Perryton 200 Robert Cooper, Arcadia OK  
WGVN VA Richmond 350 Robert Seybold, Dunkirk NY

WNEC TV4

WNEC-4  
KGNC-4

## CHANNEL 58 TV DX RECORDS

KLCS CA Los Angeles 135 Jim Pizzi, Orcutt CA  
WNJB NJ New Brunswick 285 Robert Seybold, Dunkirk NY  
WUNG NC Concord 345 Tom Yingling, Dundalk MD  
K58AC OK Guyton 240 Robert Cooper, Arcadia OK

## CHANNEL 59 TV DX RECORDS

K59AC CA Gonzales 125 Jim Pizzi, Orcutt CA  
WTVU CT New Haven 235 Tom Yingling, Dundalk MD  
WFAM IN Lafayette 410 Robert Seybold, Dunkirk NY  
WBES NY Buffalo 5 Norma Erint, Kenmore NY  
K59AD TX Perryton 200 Robert Cooper, Arcadia OK

KTEH-54

KVII-7

## CHANNEL 60 TV DX RECORDS

WLXT IL Aurora 455 Robert Seybold, Dunkirk NY  
WKAR MI East Lansing 255 Robert Seybold, Dunkirk NY  
K60AG OK Guyton 240 Robert Cooper, Arcadia OK

2 screens  
shows every  
30 minutes



# EASTERN TV DX

Bill Thompson  
1907 Seneca Street  
Buffalo, NY 14210

June 1975

Deadline: 10th

As of mid-May, the E-skip season seems to be off to a good start. It's May 16th as this is being prepared, and the editor is noting a third day of very heavy Es activity. It's hard to make meaningful predictions about E-skip, but it looks like a great season is upon us! With the usual exception of Florida, practically no tropo of any significance has been reported for April or early May.

February E-skip dates:	7	17	19	March: 13	24	29	April: 21
number of reporters	1	1	2	1	1	1	1
MUF to at least:	ch3	5	4	3	4	3	4

Bill Harrison 2124 Saranac Street Adelphi, Maryland 20783 (EDT)

"This is my first report...I am 14 years old and I have been a member since March. My antenna system is a 19 element (home brew) log periodic for UHF/VHF, a 15 meter beam (home brew) for 15 meter ham band, and a 5 element yagi (home brew) for 2 meters and FM DXing. All of my antennas are up 40 feet above the ground. In the future I plan to get a UHF/VHF pre-amp, a Channel Master 7' dish, and a 100' tower to clear the 90' pine trees in my back yard...I have a 15 inch B/W GB TV receiver for TV DXing, a Realistic Pro-77 VHF scanner for for 2 meter DXing, and a Realistic STA-46 receiver for FM DXing." (Txn for your report Bill, and welcome! -bt)

March	April
24 Tr 0520 WPMI-6 Philadelphia (130)	1 Tr 2301 WCPB-28 Salisbury MD (85)
0525 KYN-3 Philadelphia (130)	2107 WCPB-28 Salisbury MD (85)
1733 WMBT-12 Richmond VA (111)	2129 WBOC-16 Salisbury MD (85)
25 0520 WPMI-6 Philadelphia (130)	2206 WTAR-29 Philadelphia (130)
0522 KYN-3 Philadelphia (130)	2257 WCB-48 Philadelphia (130)
0555 WGBS-2 New York NY (250)	2259 WJIS-23 Camden NJ (135)
0609 WBOC-7 New York NY (250)	2318 WPHI-17 Philadelphia (130)
0630 WCAU-10 Philadelphia (130)	2324 WHTY-12 Wilmington DE (105)
0640 WMBT-12 Richmond VA (111)	19 0539 WTAR-3 Norfolk VA (170)

Steven Sprachman 3939 Eve Drive Seaford, New York 11783 (EDT)

"April was a fairly dull month...the 30th was the best day."

April	22 Tr 2215
1 Tr 0900 WTAR-29 Philadelphia 3344R	"Philadelphia UHF 17,29"
2 2000 "Philadelphia UHF 17,29"	WNJS-23 Camden NJ 3344R
2030 WNJS-23 Camden NJ 3444R	24 1700 WNJT-52 Trenton NJ 3433R
10 2000 "Philadelphia UHF 17,29"	2100 "Philadelphia UHF 17,29"
WNJS-23 Camden NJ 3555R	30 1500 "Philadelphia UHF 17,29"
WBRE-28 WilkesBarre 2222R	WNJT-52 Trenton NJ 3444R
WNJT-52 Trenton NJ 2444R	1900 WCPB-28 Salisbury MD 3333R
17 2100 WNJB-58 NewBrunswick 4555R	WNJS-23 Camden NJ 2333R
WNJT-52 Trenton NJ 3555R	WCMC-40 Wildwood NJ 3033R
WTAR-29 Philadelphia 2434R	WNJT-52 Trenton NJ 3555R
2130 WPHI-17 Philadelphia 3444R	1930 WPHI-17 Philadelphia 4555R
WNJS-23 Camden NJ 2123R	WTAR-29 Philadelphia 4555R
21 Es 2130 (unID) 2 "under WGBS"	2000 WBOC-16 Salisbury MD 3544R
	WNJS-23 Camden NJ 5555R

Wayne Fitzgerald 718 Leesville Road Lynchburg, Virginia 24502

"Another nothing month here. Some weak tropo from North Carolina on 4-11 and another on 4-19 that included some West Virginia."

Greg Kelley 181 Hurst Avenue NE Roanoke, Virginia 24012 (EDT)

March	May
24 Tr 2200 WTAR-3 Norfolk VA	5 Tr 0830 WTVR-6 Richmond VA
2202 WMBT-12 Richmond VA	0832 WMBT-12 Richmond VA
2205 WTVR-6 Richmond VA	0835 WCVB-23 Richmond VA
	0840 WTVR-11 Durham NC
April	6 0855 WCCB-18 Charlotte NC
27 Tr 2230 WBTB-3 Charlotte NC	0913 WUNL-26 Winston-Salem NC
28 2100 WTVR-6 Richmond VA	0918 WRAL-5 Raleigh NC

Receiver: RCA Colorvista. Antenna: 13 element yagi.

Tony Ward RRA Guelph, Ontario N1H 6J1 (EST/EDT)

"...A bit of a burst in March let me log a bunch of not too distant VHF's now that my system is performing quite well...Wish I'd had my nice 7' dish up for the 16th & 21st of March. The Super Flying Arrow got WB1AJ with only 3 or 4 db of gain on this channel. The (Delhi) dish has 25 db over a dipole. I'm using Belden 8235 which has less than 4.0 db loss/100' for down lead until Delhi's new low noise pre-amp comes out next month...less than 6 db noise dead flat performance over entire VHF/FM/UHF band...12 db gain & extremely high overload characteristics also. Dish is at 46' at present and will be at 66' eventually. A second tower will hold the VHF 1047 (38' on pipe at present) up with 2 10YFMG's vertically stacked. An old Allied rotor will turn a low vertically mounted cheap VHF for Es. The SFA 1483 is at 56'; above the dish for comparison. The discrepancy between the 2 becomes remarkable at channel 79 which is near snowfree on the dish. W46AB is a frame bar full time, the Erie U's are always watchable, often excellent with very mild tropo."

February

11 Tr 0600 KIKA-2 Pittsburgh (220)

March

4 Tr 0725 WJIM-6 Lansing MI (225)

0727 WOOD-8 Grand Rapids (275)

1628 WPSX-3 Clearfield PA (200)

7 0145 CRPST-7 Sturgeon Falls (190)

16 0204 WEND-13 Huntington WV (375)

0215 WPAJ-10 Altoona PA (230)

0800 Scranton-W.B., Youngstown

0835 W26AA-26 Jamestown NY (120)

0840 W46AB-46 Brocton NY (95)

0845 W73AR-73 Arcade NY (120)

0850 W76AM-76 Allegany NY (135)

0900 WJAN-17 Canton OH o/WEND

0930 WPAP-15 Parkersburg (310)

WHIZ-18 Zanesville OH (270)

0952 WTRF-7 Wheeling WV (250)

1000 WPGH-53 Pittsburgh (220)

1007 WTOL-11 Toledo OH t/CHCH

19 0900 WBNS-10 Columbus OH (290)

21 0800 WPAP-15 Parkersburg (310)

0812 WHIZ-18 Zanesville (270)

All northern Ohio U's

0815 WOUC-44 Cambridge OH (260)

0840 W41AA-41 Wheeling WV (250)

21 Tr 0850 WOSU-34 Columbus OH (290)

0900 WOUB-20 Athens OH (310)

0901 WSTV-9 Steubenville (230)

0907 WBNS-10 Columbus OH (290)

0925 WB1AJ-81 Cattaraugus (115)

0930 WQKX-16 Pittsburgh (220)

28 0725 "Fair to N. Ohio U's"

WTAJ-10 Altoona PA (230)

0730 WJAC-6 Johnstown PA (235)

April

9 Au - "choppy ch 2...no ID's"

"7' dish up!"

16 Tr 0715 WPGH-53 Pittsburgh (220)

22 0730 "Trop building; N. Ohio

excellent, W46AB, W26AA & W73AR,

WNPE-16 weak, WENY-36 weak,

nothing over 200 miles except

WCNY-24 Syracuse."

28 2230 W73AR-73 Arcade NY (120)

"Trop building...at same time

W26AA not seen & W46AB weak"

2235 W46AB Brocton 2345R (95)

2240 Akron, Canton, Youngstown U's

May

3 Tr 2210 WCNY-24 Syracuse NY (215)

Ken Simon 528 Pilgrim Road West Palm Beach, Florida 33405 (EDT)

April

1 Tr 2145 ICR6-3 Santa Clara CUBA R

ICR2-8 Santa Clara CUBA R

ICR6-9 Matanzas CUBA

2200 W69AA-69 Hollywood FL

2332 ICR-2 Havana CUBA R

2 0550 WJIT-4 Jacksonville FL R

2300 ICR6-3 Santa Clara CUBA R

ICR6-9 Matanzas CUBA R

2345 WJCL-22 Savannah GA R 390

ICR-2 Havana CUBA R

3 0014 ICR-6 Havana CUBA R 305

6 0843 WCJB-20 Gainesville R 260

"full VHF dial to 175 miles"

2200 WJKS-17 Jacksonville R 285

9 2315 ICR6-3 Santa Clara CUBA R

ICR2-8 Santa Clara CUBA R

10 1450 ICR6-3, ICR2-8 "—ICR TP

w/Reloj Nacional (a Cuban

radio net -bt) AM ticker"

10 Tr 1740 Telerebelde-3 Holguin CUBA

2100 ICR6-8 Holguin CUBA R

18 0600 WTCC-11 Savannah GA R 390

19 0902 WYEA-38? "NBC" T

0940 WJKS-17 Jacksonville R 285

WCJB-20 Gainesville R 260

WJCL-22 Savannah GA R 390

26 0815 WMFE-24 Orlando FL R 150

0830 WJKS-17 Jacksonville R 285

WJCL-22 Savannah GA R 390

2210 WUSF-16 Tampa FL T

2300 WERA-14? "FBS" T

2310 WJCL-22 Savannah GA R 390

2315 WATU-26 Augusta GA (SC) 490

0930 WCJB-20 Gainesville R 260

0540 WJXT-4 Jacksonville R

0602 WJKS-17 Jacksonville T

2200 ICR6-9 Matanzas CUBA R

30 2200 ICR6-9 Matanzas CUBA R

"Some Cubans, some tropo but no Es...well with April at an end...Es can't be too far away..." (Ken also extends an invitation for members who'll be in Florida for the WTFM convention to drop by His West Palm Beach QTH -bt)



Bill Thompson 1907 Seneca Street Buffalo, New York 14210 (EDT)

March  
 23 Tr 1900 WVIA-44 Scranton PA (190)  
 1925 WKBS-48 Philadelphia (270)  
 Detroit 50 & 56 weak  
 24 0000 Detroit U's very good  
 CKGN29-29 hvy CCI on lcl  
 28 1915 Scranton area U's fair  
 2055 WNTS-9, WCNY-24 NY vy good  
 29 0100 WDHO-24 Toledo OH (240)  
 0110 CKGN1-22 Cottam Ont (205)  
 noted w/net trouble slide  
 0154 CKGN29-29 OilSprings (165)  
 April  
 16 Tr 0710 W62##-62 Clymer NY (72)  
 0 CCI w/W62## Sinclairville  
 21 MS 0208 KCKT-2 Great Bend KS T  
 Es 2035 unIDs 2-4 south  
 24 MS 0538 WWAY-3 Wilmington (560)  
 25 0603 WTTG-5 Washington DC (285)  
 Tr 0900 WNEP-16 Watertown NY (165)  
 0910 WETK-33 Burlington VT (315)  
 1419 WCDC-19 Adams MA (300)  
 1441 WVTM-41 Windsor VT (315)  
 2200 WKAR-23 E Lansing MI (280)  
 16 1900 KXGN-2 Denver CO thru WGR  
 2200 Detroit U's weak to fair  
 0824 WBYY-25 Saginaw MI (255)  
 May  
 5 MS 0556 KYW-3 Philadelphia (270)  
 8 Tr 1830 W56##-56 Kennedy NY (50)  
 1800 WDHO-24 Toledo OH (240)  
 14 Es 1800 unID-2 weak CCI u/WGR  
 15 1900 WMT-2 Cedar Rapids IA? T  
 2030 MUF to ch 6; vy unstable  
 2100 KLINE-3 Lexington NE R  
 KTVS-3 Sterling CO R  
 2102 KNOP-2 North Platte NE T  
 2117 KCKT-2 Great Bend KS T  
 2158 KHAS-5 Hastings NE R  
 2200 KMTV-3 Omaha NE R  
 KARD-3 Wichita KS R  
 2230 skip now coming from both  
 west and southwest; CCI  
 becoming unbearable!  
 2235 KTEL-6 Shreveport LA? T  
 2300 KTVI-2 St Louis thru WGR  
 2306 KYTV-3 Springfield MO R  
 2310 KLINE-3 Lexington NE again  
 1900 KXGN-2 Denver CO thru WGR

In an attempt to reduce some of the adjacent channel slop from my locals on 2 and 4, I built a Quad Loop (June '74 VUD, p.6) on a wooden frame, and have been amazed at how well it pulls in skip on ch 3. It's hand rotatable, and I can get a surprisingly deep null on my locals. I was able to get a couple of positive video ID's thru my local on 2, something I thought I could only do with a phasing system. Last season I got good results with a phasing system using a couple of bargain-basement cheapo yagis, and may try again this year for some channel 4 ID's. All I need is a pair of good channel 4 yagis and a much bigger back yard, hi!

(EDITOR'S NOTE: In the interest of being as topical as possible, I'm including the following report, which reached me right at press time. -bt)

Tony Ward RR4 Guelph, Ontario N1H 6J1 (EDT)

May  
 13 Tr 0812 WGVG-35 GrandRapids (275)  
 0815 WCMU-14 Mt Pleasant (225)  
 0820 WUHQ-41 BattleCreek (270)  
 14 0730 W73AR-73 Arcade NY  
 0733 W76AM-76 Allegany NY  
 0737 WB1AJ-81 Cattaraugus NY  
 "MI on the 13th was a little weird as nothing beyond—I still hope for Wisconsin. The news is obviously the 14th when with the help of nice but not spectacular tropo—nothing beyond Pittsburgh—I systematically tracked down WNED-17's translators...72 was a pleasant surprise. I check channel using FM harmonics & there are no errors...56 was a nice feeling & 60 was tough—very tight."  
 14 Tr 0805 W56##-56 Kennedy NY  
 0807 (unID) 81 "weak bars"  
 0815 WB1??-81 20 CCI on WB1AJ T  
 0824 W72AQ-72 Gt Valley NY  
 0836 W60##-60 Finley Lake NY  
 0845 "Signals fading, WPGH-53 now a framebar, earlier good."

New members: let's hear from you! If you do any TV DXing in FLORIDA, GEORGIA, SOUTH CAROLINA, NORTH CAROLINA, VIRGINIA, MARYLAND, D.C., DELAWARE, NEW JERSEY, Western PENNSYLVANIA, NEW YORK, CONNECTICUT, RHODE ISLAND, VERMONT, NEW HAMPSHIRE, MASSACHUSETTS, MAINE, NEW BRUNSWICK, NOVA SCOTIA, PRINCE EDWARD ISLAND, NEWFOUNDLAND (How about all you Labradorians?) QUEBEC, and ONTARIO, let's hear from you soon!

Make your convention plans now! This year's WFFD Convention is being held at one of the best vacation spots on the Eastern Seaboard. If you've never been to a WFFD convention before, you can combine a summer vacation with it, and keep the wife and kids happy. Plan to attend your club's annual event this year at Fort Lauderdale's Lighthouse Point. It's always an informative experience for even the veteran DXer. Here's a bonus for some of you Eastern members: you may be able to take advantage of some of the new, lower "third-class" air fares. Your editor hopes to be there, too!

# CENTRAL TV-DX

William J. Draeb  
Ellis St. R.R.#2  
Kewaunee, Wi.  
54216  
(414)-388-2350

Deadline: 12th

The past month was a rather dull one for dx. There weren't any good tropo openings here during the month and E-Skip didn't get off the ground yet. Dyer Could got what tropo there was only because of his location further South than the rest of the reporters. Of course we all know Jim has an A-1 dxing setup, which helps, but his location, I think, was the determining factor in getting those 700+ mile tropo he saw during the past month.

Marvin Shults; R.R.#1, Toulon, Ill. 61483 CDT (309)-286-7291

4-19 Ms 0625 KRIS-6 Corpus Christi, Tx.	4-29 Tr 0900 WKMJ-68 Louisville, Ky.
4-29 Tr 0859 WVUT-22 Vincennes 4554	W68AA Danville, Ill.
WFIE-14 Evansville, In.	0930 WLKY-32 Louisville, Ky.
0900 WLF1-18 Lafayette, In.	WDRB-41 " "
WTIU-30 Bloomington, In.	5-3 Ms 0654 KATC-3 Lafayette, La.
	0657 IHTP-2 SW; no i.d.

"There seemed to be very little activity during the reporting period--at least while I was watching. I am currently using two-4 bay uhf antennas stacked vertically driving a CMA-Ub. I hope to have the P-7 back in operation in the next month or so."

Roderick Louma; 38540 Five Mile, Livonia, Mi. 48154 EST-EDT

4-16 Tr 0030 CKGN-22 Uxbridge, Ont.	5-5 Tr 0100 WTMJ-4 Milwaukee, Wi.
0035 WKBF-22 Dayton, Oh.	0115 WLWC-4 Columbus, Oh.
0036 WSBT-22 S. Bend, In.	0125 WRTV-6 Indianapolis, In.
0037 WFLD-32 Chicago, Il.	0145 WMAQ-5 Chicago, Il.
0100 Ft. Wayne U's	0155 WISN-12 Milwaukee, Wi.
	0156 WITI-6 " "

"Tropo reception is still waiting that first big opening to be seen here. I just can't believe we're this far into May without one or two sessions. Maybe I've just missed them! (I doubt it, nothing here either--wd) I finally got some grounding problems corrected in my fet vhf preamps to eliminate the tendency to oscillate and the improvement is appreciable. WICU-12 Erie at 170 miles seems to be seen just about every day even when the band is down. One new station this time, CKGN-22 Uxbridge, which was received when CKGN-22 Cottam had signed off early as they often do. They must protect the Detroit area market when running certain movies which may be purchased in the future by one of the Detroit stations. I heard an interview one morning on CBE -1550 khz with a Global official explaining why they had to black out Cottam for these reasons. If its the 6:30 p.m. movie, a slide saying "rejoin us at 10:00 for the news" is aired with no audio. If the 11:00 p.m. movie is blacked out, they sign off early. Fortunately I can get 29 from Oil Springs pretty good if I care to watch the Blacked out feature."

Paul Gains; 15920 Puritan St., Detroit, Mi. 48227 EST-EDT

4-25 Tr 0525 CKCO-13 Kitchener, On.	4-25 Tr 0528 WBNS-10 Oh. 3545(165)
3544(150)	0544 WSBT-22 In. 1022 "
CKCO-1-2 On. 1022(210)	0548 WAKR-23 Oh. " (125)
0527 KDKA-2 Pittsburgh 1323(210)	0552 WICU-12 Pa. 1532(160)
0528 WLWC-4 Oh. 2043(165)	0622 WNDU-16 In. 1022(165)
WTWN-6 " " "	2350 WGVC-35 Mi. 2522(135)

Thanks for the report Paul; conditions seemed to be pretty bad for tropo during the past month--wd.

Jim Gould; R.R.#3, Kokomo, In. 46901 (317)-452-9585 EST

4-17 Tr 1930 KOLR-10 Mo. 3010(445)	4-17 Tr 2340 KTHV-11 Ar. 2022(520)
2000 KOED-11 Ok. 2312(613)	2350 WHTV-24 Ms. 2313(590)
2050 KWTW-9 Ok. 3523(720)	2400 WBMG-42 Al. 3415(490)
2325 WTUV-9 Ms. 3513(464)	4-18 Tr 0025 WTOK-11 Ms. 4514(590)
2330 KOME-12 Mo. 2213(515)	0100 WALA-10 Al. 4524(700)



Gould; continued---

4-17 Tr 0100 "All evening, very rapid  
fade, indicative of thunder  
storm activity; on all signals. Un-  
usual for long tropo."

0600--band dead. 4-20 Tr KOLR-10 in and out all day w/qsb.

4-23 Tr 0747 WAAV-31 Al. 2213(410)

4-24 Tr 1930 " " 2013 "

2130 cci ch.2 SSE w/Toledo. 4-27 Tr

4-25 Tr 1930 WAAV-31 Al. 2223(410)

2005 10kc cci ch.47 w/WTP SE.

(I have WTP/WSVN 10kc  
apart-wd)

4-25 Tr 2030 KBWA-41 Mo. 3-23(458)  
Cape Girardeau, St. Louis vy  
strong at 2000.

2220 KOLR-10 Mo. 4030(445)

4-26 Tr 0800 WAAV-31 Al. 2433(410)

2100 WSVN-47 Va. 4525(317)

Madison U's, snowfree.

2230 KRIN-32 Ia. 5532(320)

0047 WKPT-19 Tn. 4533(346)

0057 WENT-19 Al. 4533(410)

0125 unided ch.19, 10kc cci

w/Peoria, SSW.

0200 unided ch.7, SSW, Telethon.

0257 WBBJ-7 Tn. 4534(378)

Jim also sends along an interesting article about "manufacturing E-Skip".  
It could be used in underdeveloped countries where modern communications  
are lacking.

Paul E. Petosky: 712 Brook St., Munising, MI. 49862 (906)-387-4712 EST-EDT

4-12 Au 0120 chs.2-6 unided; N.

Tr 1815 WPNE-38 Green Bay (145)

1835 WGTU-29 Traverse City (135)

4-13 Tr 1230 CBLAT-3-9 Wawa (140) (snowfree)

CBLAT-4-11 Marathon (160)

CBLAT-13 Geraldton (230)

1240 WGTU-29 Traverse City (135)

1700 WPNE-38 Green Bay (145)

1715 WWTU-9 Cadillac (160)

CICA-19 Toronto (395)

Au 1730 unideds ch.2-6; N.

Tr 2155 WTEM-5 Bay City (240)

2200 WGTU-29 Traverse City (135)

WPNE-38 Green Bay (145)

4-14 Tr 0027 CBLAT-12 Peterborough (415)

0030 WWTU-9 Milwaukee (235)

0035 CKPR-2 Thunder Bay (185)

0100 WWTU-9 Milwaukee (235)

2240 WPNE-38 Green Bay (145)

WGTU-29 Traverse City (135)

4-18 Ls 0130 CBLAT-6 Winnipeg (545)

4-19 Ms 0130 unided ch.6; W.

4-20 Au 1745 unideds ch.2-6; N.

4-22 Tr 0020 WWTU-10 Sault Ste. Marie (125)

Au unideds ch.2-6; N.

Tr 0100 CJIC-2 Sault Ste. Marie (112)

WTOM-4 Cheboygan (115)

0110 CKSO-1-3 Elliot Lake (190)

4-23 Tr 0005 WWTU-10 Sault Ste. Marie (125)

0045 WTOM-4 Cheboygan (115)

0120 CJIC-2 Sault Ste. Marie (112)

seen them in a long time and believes they may be off the air.--vd.

Paul also passes along info of a ch. 55 xltr to be operated by WGTU-29 in  
Alpena, MI. More details as they become available.--vd.

Donald B. Ruland: 4448 68th Place, Kenosha, WI. 53140 CDT

4-14 Ms 0536 WCIV-4 Charleston (810)

Tr 0705 W39AA(WBGU) Ft. Wayne (180)

4-15 Tr 0500 WLWC-4 Columbus (320)

0530 WJW-8 Cleveland (330)

WKYC-3 " "

4-23 Tr 0525 WJW-8 " "

0530 WENS-10 Columbus (320)

4-26 Tr 0700 KROC-10 Rochester (260)

0730 WKIX-19 Cincinnati (300)

0735 WUAB-43 Lorain (310)

0745 WTVZ-25 Cleveland (330)

4-29 Tr 0530 WCPO-9 Cincinnati (300)

WKRC-12 " "

5-9 Tr 0630 WPEO-42 Portsmouth (370)

Ruland; continued---

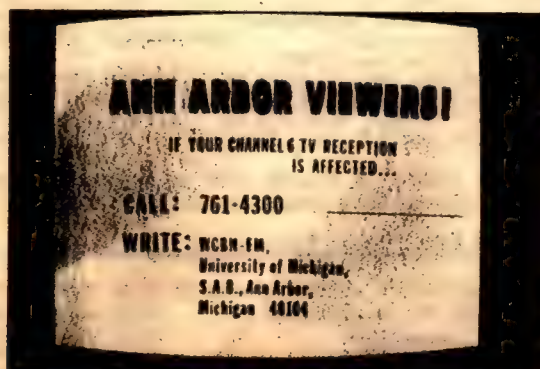
5-9 Tr 0700 WCET-48 Cincinnati(300)  
 0725 WVIZ-25 Cleveland(330)  
 WAKR-23 AKRON(340)  
 5-13 Tr 0645 WLKY-32 Louisville(330)  
 0630 WOSU-34 Columbus(320)  
 0700 WCVN-54 Covington(310)  
 0650 KINL-30 St. Louis(300)  
 Log now at: 374

William J. Draab; Ellis St. R.R.#2, Kewaunee, WI. 54216 (414)-388-2350 CDT

4-16 Tr 1846 KINL-30 St. Louis(432)  
 Dayton U's(368)  
 Cleveland U's(355)  
 1848 WOSU-34 Columbus(395)  
 4-20 Ms 1104 "Under Dog" cartoons; ch.4; ENE.  
 4-21 Tr 2012 WKYT-27 Lexington(473)  
 WKRC-12 Cincinnati(400)  
 WENS-10 Columbus(395)  
 KWWL-7 Waterloo(268)  
 4-26 Tr 0515 WHIO-7 Dayton(368) T  
 0520 WJW-8 Cleveland(355)  
 0525 WCPQ-9 Cincinnati(400)  
 Ms 0550 Unided ch.8; 7 sec. burst, minus offset, SSE.  
 Tr 2040 KINL-30 St. Louis(432)  
 WICB-20 Springfield(325)  
 2043 WTIU-30 Bloomington(376)  
 WVUT-22 Vincennes(405)  
 WILL-38 Terre Haute(348)  
 2107 KMTC-27 Springfield(589) T  
 WKYT-27 Lexington(473)  
 Indianapolis U's(336)  
 4-27 Tr 0820 WLKY-32 Louisville(437)  
 WKYT-27 Lexington(473)  
 WQTV-62 " "  
 WILL-38 Terre Haute(348)  
 Log now at-----:589

5-6 Tr 2020 KINL-30 St. Louis(432)  
 WVIZ-25 Cleveland(355)  
 WUAB-43 Lorain(340)  
 2028 WUTV-29 Buffalo(445) T  
 Dayton U's(368)  
 5-9 Es 2056 unided ch.4; lasted 1 mi  
 5-10 Es 0705 unided ch.3; S.  
 5-13 Tr 0800 KINL-30 Vy strong.  
 5-15 Es 1940 WUND-2 Columbia, N.C.  
 (strong sig., no fading)  
 2048 KINL-4 San Antonio T  
 KACB-3 San Angelo T  
 2128 WWAY-3 Wilmington, N.C.  
 5-16 Tr 0645 KCCI-8 Des Moines(367)  
 0659 WMO-13 " "  
 2050 KQFD-21 Ft. Dodge(365)  
 2055 KENE-29 Hastings T  
 2110 KSTN-27 Sioux City(462)  
 (same offset as WMO)  
 2140 KIBG-14 Sioux City(462)  
 5-17 Tr 0138 KCCI-8 Des Moines(367)  
 0144 WDIO-10 Duluth(286)  
 WENS-10 Columbus(395)  
 0703 KMTC-27 Springfield  
 0712 KTSB-27 Topoka(560)  
 0731 KQFD-21 Ft. Dodge(365)  
 0744 KCBJ-17 Columbia(450)  
 2049 WVIZ-25 Cleveland(355)

I just received a call from Jim Gould (5-18 @ 2200). He said chs.26 and 39 from Houston were rolling in. I didn't have the tube on at the time because of thunderstorms in the area. I now wished I would have looked sooner as I may have missed out on something. Guess I'll have to wait till next time. 73's for now and good dx. Bill.



← See page 71



# WESTERN TV DX

June 1975

(A couple of reports in this month's column go back to November, December, January and February, with Es loggings during those months. Check those reports if you wish to add those to the latest Es charts for those months. All other reports in this issue contain Es for April.)

Dennis Park Smith  
2237 1/2 Ceres Avenue  
Chico, California 95926  
Telephone 916 343-9424

ADDRESS FOR 9-JUL DEADLINE:

Dennis Park Smith  
722 Rosewood Avenue  
Wasco, California 93280  
Telephone 805 758-2832

CHICO address for 7-Aug deadline

Overall, DX for the month of April wasn't so good, though it did give a chance for some MS observing by several reporters. Tropo wasn't much, though it was better further south. Oklahoma DXers saw just a little tropo on 17 April and 4 May with VHF-UHF up to about 700 miles. However, Pat Dyer in south Texas had quite a session around 14-18 April with Florida and Georgia UHF noted, such as WYEA-38 Columbus GA at 830 miles and WKID-51 Fort Lauderdale FL at 1150 miles.

After fair to good showings at times through February here and there, Es in March and April has been rather slim. What DX was seen by sporadic-E was scattered around, with few reports coinciding with each other, time-wise. MUF's were consistently low in all reports (ch 2 and 3), except for 14 April, when Steven Wiseblood in California noted 97.9-MHz MUF at his location. Perhaps it won't be a very good summer for Es DX, but we'll see what happens.

		noon	eve	am	noon	eve	am	eve	noon	aft	am		aft	eve
Sporadic-E	<u>April</u>	9	9	13	14	14	20	20	21	25	27	<u>May</u>	2	3
Number of reporters		1	2	1	1	2	2	1	1	1	1		1	1
MUF at least(ch/MHz)		3	2	4	2	97.9	3	3	2	3	2		2	2

Jim Pizzi, 300 Park, Orcutt, California 93854

(20 Nov - 1 Feb) (PST)

20 tr 1810 unId 26 north(10kHz)	1857 unId 4 SS u/XHG	0910 unId 2 2 2
toKMPH/off1820(SF?)	1922 ch 2 f/out	0930 KDIX- 2 DickinsonND
22 Es 1845-2000 2,4,5 unIds D8 tr 2106 KOED 9 SanFran CA 15	Es 1700 unIds 2,4,5(notd)	
(on cable at store)	2107 KEMO 20 SanFran	18 Es 1748 unIds 2,4 on
30 Es 1550 unIds 2,3,4	2110 KBHK 44 SanFran	27 Es 1900 unIds 2,4,5 cable)
1600 KMID- 2 Midland TX 11	Es 1730 unIds 2,4,5	32 tr 1015 KMOV 31 Sacramento
1715 XEW - 2 Cd.Juarez	1832 unId 4 (ABC)	1016 KTXL 40 Sac'to CA
1729 KDCC 4 El Paso TX	1958 KWGN 2 Denver CO	1019 KVOP 38 SanFran CA
1810 unId 2 SS CH5 net 12	tr 2320 KGSC 36 SanJose CA	1020 KBHK 44 SanFran CA
1839 unId 2 SS baseball 14	MS 0500-0600 2-6unIds east	30 Es 1800-2000 2,4,5 SSunIds
1835 XHG - 4 SS (double hop)(Id as Guadal.	Es 0845-0858 4 unId east	31 Es 1800 unIds2-4(on cable)
v/film of city;tol912)	(nothing on 2,3)	FI Es 1700 unIds2,4,5 SS
		Total seen now 150.

Steven C. Wiseblood, 707 Loma Way, Santa Maria, California 93854

(7 Apr - 6 May) (PDT)

Antennas: ACA-525 25-el. @ 25 feet; ACA 22-el. for UHF @ 30 feet		
11 tr 1746 KGO - 7 CA1434R228	2010 KOCO - 50K2342 1281	22 tr 0717 KMST 46 CA3555 130
13 tr 0845 KMST 46 CA2345"130	2011 WKY - 40K5531 1280	0732 KNTV 11 CA5555 165
Es 0930 unId 2 ne(Canada?)	2012: MUF @ 97.9	23 tr 1856 KTVU 2 CA3554 230
0950 unId 3,4 n.n.e.	2110 f/out	27 tr 0853 KTVU 2 CA3444 230
tr 0954 KTV 11 CA4555 175	tr 0826 KRCR 7 CA0222T405	Es 1026 CBUT 2 BC T1000
1021 KSBW- 8 CA5555 135	1424 KRON- 4 CA1443 228	30 tr 1820 KSBW- 8 CA5555 135
Es 1038 KMID- 2 TX3023 1066	1522 KTVU 2 CA4524 228	1 tr 1820 KSBW- 8 CA5555 135
tr 1139 KTVU 2 CA2434 228	1528 KPIX 5 CA0344 228	2 tr 1135 KNTV 11 CA5555 165
1140 KGO - 7 CA2544 228	1629 KGO - 7 CA2555 228	1317 KSBW- 8 CA5555 135
2008 KRON- 4 CA0531 228	19 tr 0848 KMST 46 CA1035 130	Es 1540 CBUT 2 BC T1000
14 Es 1849 unId 4 east	21 Es 1247 CBUT 2 BC T1000	3 tr 1117 KGO - 7 CA2534 228
1904 KMID- 2 TX5054T1066	(Sesame Street)	1443 KPMB- 8 CA3454 230
1947 KAMR 4 TX5555 1046	MS 1502 KLAS 8 NV	4 tr 0811 KXKT 2 CA3444 135
(Amarillo-new call)	MS 1502 KLAS 8 NV	
(super-burst)		

No new stations this month; total remains at 102. April was a very cold month here, in fact, temperatures were between 5 & 10° below average for most of southern California. Tropo has been virtually nonexistent. Es has been very low for this time of year. Is it better anywhere else? 73's.

Glean Hauser, 1312 W. Oak Avenue, Enid, Oklahoma 73701

(4 Mar - 5 May) (CST)

Es is awfully slow starting this year; not a trace as of 5 May. I did get the dish up, but it must be hand rotated. At least we're getting a little tropo after a long, dull period. (# = visible on CATV only)

0929 KTXS 12 Sweetwater TX  
 1150 KCBJ 17 Columbia MO  
 KOLR 10 Springfield MO (solid)  
 1212 KWTC 27 Springfield (out by 1250)  
 2336 WALA 10 Mobile AL # (NBC, weak Id)  
 20 MS 2348 CPFL 10 London Ont # (Id at bottom)  
 (or WFLG? KBGL?)  
 (CATV ant aimed NWE)

25 tr 2259 KRBC 9 Abilene TX (Id thru KWTU)  
 3 tr 2035 KXTX 39 Dallas TX  
 4 tr 0532 KPDS 8 Bayre OK (slide w/xltras)  
 0533 KCBK 11 Lubbock TX (CB; 0534 NM Rpt)  
 KLBK 13 Lubbock (CB; 0534 super. Id)  
 0534 KVII 7 Amarillo TX (Id slide; long list of xltras at s/on)  
 0548 KPDA 10 Amarillo (microwave calls; 0551 s/on)  
 0605 KAMR & Amarillo (CB, Id super.)  
 (ex-KGNC-TV)  
 0650 KMCC 28 Lubbock (full CB; 0900 fade)

26 tr 0659 KXTX 39 Dallas TX (Id)  
 25 tr 2347 KOLN-10 Lincoln NE # (VAFI 5555)  
 16 tr 2200 KJAC & Port Arthur TX  
 2327 KPDM 6 Beaumont TX c(circle-6 Id)  
 17 tr 0008 KTVB 10 El Dorado AR # (testing vid. wipes on Id slide; 0013 off)  
 0559 WOW - 6 Omaha NE  
 0600 KRNT 8 Des Moines ? (CBS) T  
 0735 WIBW 13 Topeka KS (o/KETA)  
 0758 KOZK 21 Springfield MO (s/on) #  
 (1. MW, Drury College, off PM)  
 0929 WTRC 12 ??? (vid. Id, west... ??)

Bob Cooper, Jr, Rt 5 Box 782, Guthrie, Oklahoma 73044

(8 Feb - 6 May) (CDT)

A disappointing spring season here to date. Es, if there has been much, has been spotty here (or I have simply been too busy and missed it). Tropo never developed as it normally does; totally absent have been openings to the southwest and far north. Generally, stinko to date. Going back to the last report filed:

Feb 11: Es tune-in 1835 with WCRD 2 SC WPBT 2 FL WEDU 3 FL noted.  
 Feb 13: tropo 0730 KIDZ 24 TX.  
 Feb 17: Es t/in 1750 WPBT 2 FL WEDU 3 FL WDIQ 2 AL noted.  
 Feb 18: Es t/in 1840, weak through 1915.  
 Feb 20: Es t/in 0751 WTHS 2 ICR-2 Cuba and Rebelde-3  
 Mar 12: tropo 2025 KCBJ 17 MO.  
 Mar 16: tropo t/in 1755, weak zero-beat against KUIH 16 MO.  
 Mar 17: tropo KTVV 36 TX and KVUE 24 TX.  
 Mar 20: tropo t/in 0723 KVRL 26 TX KVUE 24 TX KIDZ 24 TX WMAO 23 MS WMAH 19 MS WMAU 17 MS WMAV 14 MS KILAA 14 LA WRBT 33 LA WMAA 40 AL WKAB-32 AL WGIQ 43 AL KETS 2 WMAA 29 MS WCOV 20 AL WAPT 16 MS WDMH 18 AL WIIQ 41 AL WCPT 33 AL WACS-25 GA and WAIQ 26 AL (station # 609).  
 Mar 22: tropo 0855 KCBJ 17 MO, 0930 WICS 20 IL. 2135 tropo picking back up with WAPT 16 MS WMAV 18 MS WMAO 23 MS WRBT 33 LA WMAA 29 MS WMAU 17 MS WMAH 14 MS KILAA 14 LA KIDZ 24 TX KVUE 24 TX WHTV 24 MS WDMH-26 LA KVRL 26 TX, through 2330 tune-out.  
 Mar 23: tropo 0149 WLOX-13 MS KHOU 11 TX KTRK 13 TX.  
 Mar 26: tropo t/in 0815 KIDZ 24 TX KVUE 24 TX.  
 Mar 27: tropo t/in 1012 KDNL-30 MO, 2058 WAPT 16 MS.  
 Mar 30: tropo t/in 0920 KIDZ 24 TX KVUE 24 TX.  
 Apr 1: tropo t/in 0720 KTVV 36 TX KIDZ 24 TX KVUE 24 TX.  
 Apr 9: tropo 0750 KCBJ 17 MO.  
 Apr 16: tropo t/in 0725 KTRK 13 TX KVRL 26 TX KEDT 16 TX WRBT 33 LA WMAA 29 MS WMAU 17 MS KILAA 14 LA WAPT 16 MS WMAH 19 MS.  
 Apr 17: tropo t/in 0725 KCBJ 17 MO KHNE-29 NE WRBT 33 LA WMAO 23 MS WAPT 16 MS WMAV 14 MS WMAV 18 MS WCOV-20 AL WAIQ 26 AL WKAB-32 AL WIIQ 41 AL WMAH 19 MS; t/in 1640 WAPT 16 MS; t/in 1835 KCBJ 17 MO KDNL-30 MO WIIQ 38 IN WICD 15 IL WICS 20 IL WFIY 20 IN WIPB 49 WUST-16 IL KNCT-46 TX and others in and out.  
 Apr 24: tropo t/in 0745 KDNL-30 MO KHNE-29 NE KCBJ 17 MO KIDZ 24 TX.  
 Apr 25: tropo t/in 2212 KCBJ 17 MO.  
 Apr 28: tropo t/in 0740 KCBJ-17 MO KDNL-30 MO KIDZ 24 TX KRCG 13  
 Apr 29: tropo t/in 0724 WFIQ 14 IN WENT 25 IN WKMA 35 KY and WPBO 42 OH (815 mi, station # 610)--all via long, thin duct ahead of cold front. 0801 KCBJ-17 MO.  
 May 4: tropo t/in 0950 KIDZ 24 TX KVUE 24 TX KCBJ 17 MO KTVV 36 TX plus 50-some UHF translators from southwest, west (none new), 1825 KNCT-46 TX KTVV 36 TX KVUE 24 TX KIDZ 24 TX KHTV 39 TX.  
 May 6: tropo 0745 KHTV 39 TX KVRL 26 TX.... 73.



# WESTERN TV-DX

Pat Dyer, 5315 Silvertip Drive, San Antonio, Texas 78228

(7 Apr - 6 May)

(CST)

Equipment: 1971 model 9-inch black-and-white Penncrest with Archer V-100

and 8-bay bow-tie UHF array at 20 feet with rotor

2 Es 1150 WDIQ 2 AL T 730	0600 WMAW 14 MS 620	2252 WDHN 18 AL T 795
WCBD 2 SC T1120	WAPT 16 MS T 525	2304 WCOV-20 AL 750
1155 WSAV- 3 GA T1050	0610 WRBT 33 LA 450	2332 KKAS- 5 TX 240
1229 WSB - 2 GA 880	0935 WTIQ 41 AL 670	2358 WTEA-38 GA 830
1240 f/out	1058 WTOG-44 FL 985	18 tr 0005 KPLC- 7 LA 325
Es 1915-20 2 unids n.e.	1100 KPLC- 7 LA 325	0010 WEAR- 3 FL 685
11 ms 1148-51 2-6 vylongburst	WAFB- 9 LA T 450	KRGV- 5 TX 235
14 tr 0812 KMCC 28 TX 340	WXLt 40 FL T 990	0012 WALA-10 AL 630
Lubbock(ex-KSEL-)	1117 WBRZ 21A(o/KPRC)450	0018 KOCO- 5 OK 420
0816 KLBK-13 TX 340	1125 WBBH-20 FL T1040	0019 WFAA- 8 TX 250
0829 KCBQ-11 TX 340	1200 U's f/out	0021 KDFW 4 TX 250
1130 still some UHF in	1800 WBRZ 2 LA T 450	0528 WMAH 19 MS T 570
Es 1145 WTHS- 2 FL 1150	WAFB- 9 LA T 450	0710 WMAH 19 MS 570
1220 f/out	1829 WRBT 33 LA 450	WRBT 33 LA T 450
tr 1717 KPLC- 7 LA 325	1955 WEVU 26 FL T1050	WAFB- 9 LA T 450
1730 WGN0-26 LA T 510	WGN0-26 LA T 510	WAPT 16 MS T 525
1810 WAPT 16 MS T 525	2040 WMAU 17 MS 470	20 Es 1010 WKZ0- 3 MI T1140
2020 WBRZ 2 LA T 450	WMAH 19 MS 570	1024 WJBK- 2 MI 1225
2045 KALB- 5 LA T 385	WMAW 14 MS 620	1105 f/out
2059 WMAU 17 MS 470	2108 WXLt 40 FL 990	1733-58 unids 2,3ne,spotty
WMAA 29 MS(//17)525	(in suddenly)	ms 2231:45KUSD-2(SDPTV)logo
2100 WRBT 33 LA 450	2133 WTOG-44 FL T 985	2304:45KTWV 2M0790 920
2103 WMAH 19 MS(//17)570	2137 WMAA 29 MS 525	24 tr 0740 WBRZ 2 LA T 450
2108 WMAW 14 MS(//17)620	WAPT 16 MS T 525	WAFB- 9 LA T 450
2212 KXTX-39 TX 250	17 tr 0500 WDSU- 6 LA(tp) 510	WRBT 33 LA T 450
2304 WAFB- 9 LA 450	0504 WAFB- 9 LA 450	WAPT 16 MS T 525
15 Es 0755 WRBT 33 LA T 450	0838 WMAW 14 MS 620	WPLC- 7 LA T 325
0759 WTOG-44 FL 985	WMAU 17 MS 470	2305 XHD - 4 Tamp T 505
WXLt 40 FL 990	WMAH 18 MS 630	XHFW- 9 Tamp T 505
0810 WAPT 16 MS T 525	WMAH 19 MS 570	25 tr 0028 XHAJ- 5 VC T 700
WMAH 19 MS T 570	WCOV-20 AL T 750	unids 6,9
0955 WBBH-20 FL 1040	WAIQ 26 AL T 750	XHAB- 7 Tamp T 250
1050 WEVU 26 FL T1050	0854 WRBT 33 LA 450	Es 1430 unId 2 se,Sp,Cuba?
1200 FL U's f/out	0900 WTIQ 41 AL 670	1459 YNTC- 2 Nic 1400
1658 WEVU 26 FL T1050	0922 WMAA 29 MS 525	(until 1600)
2105 WXLt 40 FL T 990	0929 WBMG-42 AL 750-	1538 YSR - 2 EISalt1200
2129 WAPT 16 MS T 525	0930 WEIQ 42 AL T 630	1600 TGV - 3 Quat T1120
2143 WKID-51 FL 1150	1003 WHTV 24 MS T 620	1630 f/out
2205 WEVU 26 FL T1050	1015 WGN0-26 LA T 510	26 tr 0758 WRBT 33 LA T 450
2357 WBBH-20 FL 1040	WDHN 18 AL T 795	0820 WAPT 16 MS T 525
16 tr 0000 XHAH- 8 VC T 700	KLAA 14 LA T 430	27 tr 0225 WWL - 4 LA 510
XHX -10 NL T 275	1059 WAPT 16 MS 525	29 ms 0810 very high rates
unId 13 Mexico	1130 some U's still in	3 ms 1159:55 KTCA-2 MN 1110
XEPB- 3 NL T 275	1900 WBRZ 2 LA T 450	Es 0025:32 unId 2 n.or,n.e
XHAB- 7 Tamp T 250	WAPT 16 MS T 525	vy spotty
XHFW- 9 Tamp T 505	1957 KXTX-39 TX 250	2105-30 KNOP-2 NE 815
0215 KSLA-12 LA(tp) 350	2110 WACS-25 GA T 855	4 ms 0900-1200 high rates
WKID-51FL(s/off)1150	2125 unId 24 north	5 tr 2230 XHAB- 7 Tamp T 250
0520 KRGV- 5 TX 225	2128 KMID- 2 TX 280	KSWO- 7 OK T 355
0524 KLFY-10 LA 395	KERA-13 TX 250	2350 KOED-11 OK T 450
0526 WMAU 17 MS 470	KSWO- 7 OK T 355	6 tr 0015 unids 9 south(KLRN
WMAA 29 MS 525	2245 WRBT 33 LA 450	on late w/auction)
WMAH 19 MS 570	WTOG-44 FL 985	0100 WFAA- 8 TX 250

Despite the size of this report, there is an ominous sign--perhaps the worst Es season start since 1971. I guess we've been spoiled the last few years with good April levels.

Tropo of Apr 14-18 had some weird behavior. The ducts into Florida were not present many times at, e.g., 0600, but later formed to stay in until near noon.

Apr 18 very wide angle with tropo to Oklahoma and Florida simultaneously.

WIPM-3 Puerto Rico said no to my tent. report of Feb 20. I guess it might have been WEDU after all.

73, WA5IYX.

WESTERN TV DX

continued page 24...

# IDENTIFYING THE NON-IDERS

by Clarke W. Ingram

ANYONE WHO FM DXes with any regularity frequently comes across those stations termed "the non-IDers"; stations which identify themselves often and loudly with some phrase or combination of letters other than their actual call. To hear a station identify themselves as "K-96" for some length of time without hearing the actual call can be extremely frustrating (not to mention ulcerating). And, as many stations convert to this no-ID ID format, numerous unidentified loggings begin to appear in DXers' log books (witness Mike Dorner's reception of a "Z-103" some time back). In an effort to aid in the identification of such disgusting practices, we have compiled the following list of stations known to be using these phrases or "calls." NOTE: There is quite a difference between a slogan and a non-ID; it is one thing for a station to call themselves "Stereo 97" along with their call, but it is something else entirely when a station dwells on some sub-identification without mentioning the actual call for some period of time. Here, then, is the list:

<u>FREQ.</u>	<u>CALL</u>	<u>LOCATION</u>	<u>NON-ID ID</u>
92.1	WFEM	Ellwood City, PA	C-92
92.5	KAFM	Dallas, TX	92-K
92.9	WZGC	Atlanta, GA	Z-93
93.3	WIOA	Des Moines, IA	FM 93
93.7	WMYK	Elizabeth City, NC	K-94
94.1	KOL	Seattle, WA	K-92
94.5	KSTP	Saint Paul, MN	KS-95
95.7	WZZM	Grand Rapids, MI	Z-96
95.7	KKAJ	Ardmore, OK	K-J
95.9	WLEQ	Bonita Springs, FL	Super Q
96.3	WMYQ	Miami, FL	96-MYQ
97.1	KPAM	Portland, OR	K-97
97.9	KUPD	Tempe, AZ	K-100
98.1	KSLQ	Saint Louis, MO	Super Q
98.1	WCAU	Philadelphia, PA	FM 98
98.7	WXLO	New York, NY	99-X
98.7	WNOR	Norfolk, VA	FM 99
99.9	KTOM	Clovis, NM	Q-100
101.1	WAKQ	Russellville, KY	KQ-101
101.3	KIOI	San Francisco, CA	K-101
102.1	WIOQ	Philadelphia, PA	102 Musicradio
102.1	KLOZ	El Paso, TX	K-102
102.1	KYYS	Kansas City, MO	KY-102
103.3	KKTU	Ukiah, CA	K-2
104.3	WDJQ	Baltimore, MD	Q-104
104.3	KBEQ	Kansas City, MO	Super Q
104.5	WQRK	Norfolk, VA	Super Q
104.7	WRBQ	Tampa, FL	Q-105
105.7	WQXA	York, PA	Q-106
106.5	KOOI	Jacksonville, TX	K-1
107.9	KCIR	Corsicana, TX	K-108

Note the duplication of cities above, as stations attempt to imitate their competitor's idea. Also note the proliferation of these stations on 102.1! Any additions or revisions to this list are always welcome.....73, Clarke



# SOUTHERN FMDX

BITOK: Ted Fleischaker  
3023 Tremont Drive  
Louisville, KY 40205.

R.I. Lyons, 2864 West Bay Drive, Largo, FL 33540.

Equipment: Marantz 2245, 7 element yagi w/rotor.

WHIP Hattiesburg, MS	103.7	Stock Market Report
KCBS Orange, TX	104.5	"Serving the Sabin & Natchez-area" r music
4/3/75		
KULT Harlingen, TX	94.5	r music time: 1502
KVUV McAllen, TX	96.9	news-weather report
4/7/75		
VLEB Golden Meadow, LA	94.3	
4/10/75		
KKCT Killeen, TX	91.3	news-weather report, time: 1200
KSMB Lafayette, LA	94.5	Certs, Campbell Soup ads, time: 1252
KYND Pasadena, TX	92.5	Allied Bank ad, m music
4/16/75		
KITY San Antonio, TX	92.9	m music, time: 1630
KLTF Houston, TX	94.5	c music
KZFM Corpus Cristi, TX	95.5	r music
4/17/75		
KCCV Odessa, TX	91.3	r music, time: 0845
WQIT Biloxi, MS	93.7	ad, time: 0910
WKGC Panama City, FL	90.7	time: 0927
KERA Dallas, TX	90.1	news report, time: 1000
KSMI Alex, LA	96.9	"Adult Music Station", time: 1355
WLZB New Orleans, LA	97.1	m music, time: 1340
WABB Mobile, AL	97.5	"free record album" promo, r music, time: 1345
WGNE Panama City, FL	98.5	"Quad 98", time: 1348
KULU Beaumont, TX	91.3	talk, politics, zodiacs
KDBS Alexandria, LA	100.3	Coliseum tickets, time: 1521
4/18/75		
KHCT Killeen, TX	91.3	time: 0915
KVLU Beaumont, TX	91.3	r music, time: 1145
WQCK Fairhope, AL	92.1	news-weather report
KREB Monroe, LA	106.1	time: 1300
WTUB Troy, AL	105.7	k music, market prices, time: 1306
WXAA Slidell, LA	105.3	soul music, time: 1315
WLPR Mobile, AL	96.1	"Beautiful Music", time: 1715

Ted Fleischaker, 3023 Tremont Drive, Louisville, KY 40205.

Equipment: Sansui 210 receiver, Winegard NC-650 antenna, Alliance rotor.

4/18/75		
WPAL Paducah, KY	96.9	CBN nx/ wx/ s/off at 1:05 a.m. (WTT)
4/23/75		
WLBC Muncie, IN	104.1	s/off at 1 a.m.
WMLC St. Albans, WV	105.1	"Country Lovin' KLC" music was k, 1:11 a.m.
WFB Atlanta, GA	98.5	"Great 98" m music from "White Columns"
WHRF Chicago, IL	90.1	II/news-weather report, time 11 p.m.
4/26/75		
WTCM Brazil, IN	97.7	local ad/IF at 12:28 a.m.
KWLU St. Louis, MO	90.7	c music/ sta of Washington University
WIAN Indianapolis, IN	90.1	promo/ spanish program e station
4/27/75		
WTLG Indianapolis, IN	105.7	local ad/ promo for "WTLG" music
WVFE Huntington, WV	100.5	SAT-FOP football game/ local ads also
WHUB Cookeville, TN	98.3	wx/IF "Hub City"
4/28/75		
WVWC Champaign, IL	97.5	"Music just for the 2 of us on WVWC"
WTUP Dayton, OH	104.7	beer ad/ local IF
WQCV E. Vernon, IN	106.1	community calendar at 9:16 a.m.
WJCA Rushville, IN	94.3	local ad at 9:18 a.m.
WJQA Cincinnati, OH	98.5	IF/ local ad/ weather forecast

SOUTHERN FIVE (Continued); Ted Fleischaker Report (Continued).

4/28/75(Continued)

KLAZ Little Rock, AR	98.5	r music/ local ads...very strong signal
WHIX Mt. Vernon, IL	94.1	"The E. Illinois Entertainer"
WTB Marion, IL	107.3	I. as "W 3 D...Big Take Country."
KSCM Chester, IL	105.7	I. as "Heater, I - Cto. Genevive, MO
KWPM W. Flaines, MO	93.9	public service announcement/ I
WPNS Bowling Green, KY	98.3	local ad/ weather forecast

5/14/75

Unid. 90.5 Spanish....possible SMD, Havana, Cuba..rotor at SS from here.

Not too much to report here....did manage to get some good ones this month and almost all listed are new from Louisville for me. Hope the southern folks remember to report often for the new editor, who will be taking this column over immediately, it has been fun, but with work did not have time to keep this column as well as my other "paying" job! It's been a lot of fun, so support the new editor.

*Keep Smiling!  
Lied*

WESTERN TV-DX...continued from page 21...

June 1975

Buck Bettin, 1209 Richmond Dr. SE, Albuquerque, New Mexico 87106 (1-30 April) (MDT)

I have still not re-installed my VHF high-band and UHF antennas--I'll wait 'til the spring winds here have died down before trying again. With my trusty 10-element low-band yagi (still intact) I am able to submit the following reception report for April:

2 Es 1927 WSB - 2 Atlanta GA	N1260	20 Es 1000 unids 2 east	
(brief opening, weak)	21 MS 2330 WBRZ- 2 Baton Rouge LA	950	
14 Es 2100 unids 2,3 (west & northwest)	22 MS 0800 KGFE 2 Grand Forks ND	N1050	
19 MS 0052 KTVU 2 Oakland CA(new mode)900mi	26 MS 0749 KGFE 2 Grand Forks ND	1050	

If you're wondering why I'm so big on ch. 2, it's because there are locals on ch. 4 and 5, and FM stations wreak havoc on ch. 6. Ch. 3 is open, but it gets heavy interference from local KOB-4; my antenna will tune it out somewhat to the NW & SE, but from any other direction it would take some pretty strong DX to overpower it.

However, I bought one of those GE TV-band radios recommended by Clark Ingram (since buying it there has been no Es here). How is it attached to an outdoor antenna? (It has no external-antenna terminal.) Also, how does one figure its impedance?

(Can anyone answer Buck's questions? djs)

Richard Noel Allen, Route No. 1, Billings, Oklahoma 74630 (17 Apr - 4 May) (CST)

Receiver: Sony Trinitron KV1212

Antennas: Winegard 11-element VHF log with pre-amp and Archer 44-el. UHF log with pre-amp, above 25 feet

17 tr 0515 KTXS-12 TX	320	0541 KUPK-13 KS	205	0735 KXTX-39 TX	260
KTVV 36 TX	T 420	0553 KTVG 6 KS	160	0741 KIDZ-24 TX	180
0540 KVUE 24 TX	T 420	27 tr 2145 KIDZ-24 TX	180	(relaying KERA;	
1858 KTEC- 7 TX	420	29 tr 0455 WFAA- 8 TX	260	CCI- KVUE)	
1900 KVUE 24 TX	420	KDFW- 4 TX	260	0746 KTVV 36 TX	420
2056 KMTC 27 MO	245	KXTX-39 TX	260	0756 KVRL 26 TX	490
2059 KOZK-21 MO	N 245	KTXS-12 TX	320	0810 KLBK 13 TX	320
KCBJ-17 MO	335	0500 KERA-13 TX	260	(CCI: KERA-TV)	
2102 KDNL-30 MO	445	0504 KTVT 11 TX	255	0815 KCBJ-11 TX	320
2108 WICD 15 IL	T 565	0540 KUHI-16 MO	180	(CCI: KTVT)	
2116 WICS 20 IL	500	M1 MS 0456 WGBD- 2 SC	1030	0821 K77BI OK(WKY) 75	
2123 KOLR 10 MO	245	4 tr 0730 KTVT 11 TX	255	K71BJ OK(WKY) 95	
2100 KUHI 16 MO	180	(CCI: KCBD-TV)		0829 K75B4 OK(KWTV) 95	
2125 KYTV 3 MO	245	0732 KERA-13 TX	260	0856 KMTC 27 MO	245
24 tr 0514 KXTX-39 TX	260	(CCI: KLBK)		0859 KFDX- 3 TX	180
KLTV 7 TX	320	0735 KMCC 28 TX	32-	0900 KAUZ- 6 TX	180
0539 KGLD 11 KS	205	(ex-KSEL-TV)			



# WESTERN FM DX

...Report...

...Support WTFDA

EDITOR: ROGER S. MORIE  
P.O. BOX 784  
MISSOULA, MT 59801  
TEL: (406) 549-5365  
DEADLINE: 10th MONTHLY

Glenn Hauser, 1312 W Oak, Enid, OK 73701 (7 Mar-6 May) (CST)

4-17 Tr 1033 KNCT 91.3 TX Killeen  
1059 KETR 89.9 TX Commerce, ID,  
"Newscene 89"  
5- 5 Tr 2019 KROA 95.7 NE Grand Island, ad,nx  
I've hit quite a low point in FM DXing, as my ~~F1000T~~ tuner, the erstwhile thing that brought me 900 stations in Von Ormy, and some 500 here in a previous existence, broke down. I haven't yet replaced it with a better tuner, so am relying on the standby portable Astronaut-6 (which served me well on the expedition to NW Canada and Alaska). Using the same 10-element antenna as before, and the CADCO IPA, it attains considerable sensitivity.

Pat Dyer, WASTXX, 5315 Silvertip Drive, San Antonio, TX 78228 (8Apr-8 May) (CST)

Allied 426; Hallicrafters SX-62 with International SAX-1 preamps, and Hamtronics FM preamp; Archer V-100 antenna at 20 feet with rotor.....  
4-14 Tr 0840 KSJT 97.5 TX San Angelo, SS 175  
15 Tr 0157 KPLX 99.5 TX Fort Worth, ID 240  
0805 KTRM 95.1 TX Beaumont,c&w, ID275  
0841 KBAT 93.3 TX Midland,c&w, ID275  
0850 KHQQ 93.3 NL Monterrey, ID 275  
16 Tr 0045 KESI 107.9 TX Edinburg, ID 215  
0130 KLCL 99.5 LA Lake Charles, ID325  
0610 KTRM 95.1 TX Beaumont, ID 275  
17 Tr 2012 KNIT 105.1 TX Abilene, ID 220  
2025 KBJH 98.5 OK Tulsa, ID 450  
2043 KFMN 99.3 TX Abilene, ID 220  
KORQ?100.7 TX Abilene, EL 220  
18 Tr 0050 KBFM 104.1 TX Edinburg, ad 215  
0105 KROK 94.5 LA Shreveport, ID 350  
0122 KSMB 94.5 LA Lafayette, ID 395  
4-18 Tr 0129 KLCL 99.5 LA Lake Charles, ID325  
0130 WMC 799.7 TN Memphis, rock 635  
WJMI 799.7 NS Jackson, rock 525  
0145 WMTA 99.7 GA Atlanta, ID 880  
0155 WKEL 105.3 LA Slidell, soul 530  
0230 WEZI 105.9 TN Memphis, ID 635  
0231 KTAL 98.1 TX Texarkana, ID 380  
0300 WEGM 98.9 FL Tallahassee, 855  
s/on (prior by Es)  
24 Tr 2358 KHOK 95.3 Tamp. Tampico, ID 505  
25 Tr 0130 KTAL 798.1 TX Texarkana, c&w 380  
27 Tr 0230 WKEL 105.3 LA Slidell, soul 530  
0300 KTAL 798.1 TX Texarkana, c&w 380  
0305 WJMI 799.7 NS Jackson, rock/ 525  
soul

Some good days of trop in here, with several new catches. Judging by TV Es conditions so far, the season appears to be considerably poorer than the last few years. 73's pat

Danny Buntin, 1020 S. Duncan, Stillwater, OK 74074 (16 Feb-7 May) (CDT)

Pioneer TX-9100 tuner, & 10 element ant., @ 32 ft.....  
2-16 Es 1650 WJMI 99.7 NS Jackson, wx 480  
3-21 Tr 2136 KTFK 106.9 KS Topeka, ID, wx 220  
2317 WQXY 100.7 LA Baton Rouge, ID540  
2321 KADL 94.9 AR Pine Bluff, ID 320  
2331 KGMR 100.3 AR Jacksonville 290  
2354 WMC 99.7 TN Memphis, PSA, rock405  
2357 KOSY 102.5 AR Texarkana, s/off  
22 Tr 0004 KADO 107.1 AR Texarkana, soul  
0010 WEZI 105.9 TN Memphis, EL 405  
4-17 Tr 2101 KFIN 107.9 AR Jonesboro, ID 360  
5- 3 Tr 2123 KSTA 107.1 TX Coleman, ID 340  
2125 KORQ 100.7 TX Abilene  
2125 KNIT 105.1 TX Abilene 300  
2129 KOYV 99.3 KS El Dorado 115  
2130 KMRJ 96.9 KS Pittsburg 155  
5-3 Tr 2202 KABI 98.3 KS Abilene, nx, wx 190  
2230 KBMF 98.3 TX Spearman, ID 230  
late evening..Dallas-Ft Worth in much stronger than usual  
2239 KETR 88.9 TX Commerce 215  
2259 KTAL 98.1 TX Texarkana 250  
2331 KPXI 100.7 TX Mt Pleasant, ID240  
5-4 Tr 0032 KFMN 99.3 TX Abilene, ad 300  
0125 KDJW 94.1 TX Amarillo, c&w \$ 285  
0200 KSEL 93.7 TX Lubbock, s/off 330  
0918 KYEZ 93.7 KS Salina, EL, \$, ID 195  
5-7 Tr 0623 KOFO 95.7 KS Ottawa, ad 205  
0629 KSPT 105.1 MO St Joseph, ID 300  
0637 KESM 107.1 MO El Dorado Springs  
0645 KLVN 105.9 KS Lawrence, wx 220

\*\*\*\*\*  
\*\*\*\*SPECIAL ANNOUNCEMENT\*\*\*\*I will be leaving for Hawaii shortly with a stop over in the Southern California area for an indefinite period. Because my whereabouts for the next few months is in question, I am submitting my resignation, effective 20 June. Final deadline will be 10 June. Any member wishing to take over the column should contact HQ's immediately. Special thanks to all members that supported this column. If a replacement has not been found by the time I get relocated, I can and will resume the column. It is hoped, however, that someone will step forward and assume the editorship of this column. Again thanks to all contributors. *Rgn*



# VHF UTILITY DX

Pat Dyer  
5315 Silvertip Drive  
San Antonio, TX 78228  
Deadline: 12th of month

JUNE 1975

Hank Holbrook, 7211 Chestnut St., Chevy Chase, MD 20015 3SLeu

8-7: ----, LHLL 157.3 nr Baltimore (BIANCA, Bulk Carrier)  
10-17: ----, N79887 119.7 ov Kent Is., MD (Benard A. Heckman, M.D.,  
Cessna 182, single-engine, 4-seat, 4500 ft)  
3-1: ----, N6337W 119.7 nr Bal. (Skyhighs Fly. Club; Piper Cherokee)

Dave Rogers, Box 74, Buffalo, OK 73834 as a part-time night dispatcher for the local Sheriff is very much interested in police Dxing. Their stations are: KLA 986, 155.76; KKJ 462, 155.49 & 39.58.

The Oklahoma Highway Patrol (OHP) station at Guymon, KKB 469 on 44.7 and 44.9 puts out a good signal, as does the OHP HQ station in OK City, KKC 883. OHP stations ID with call and location. Dave will be glad to supply those interested with a list of most police stations with calls for n.w. OK and s.w. KS.

Dave's father is in the 2-way radio business and has KCU 210 on 35.96.

Now, my loggings. Hallicrafters SX-62 with two 30' long-wires (at 12' running ne-sw and nw-se); all are Ls unless noted, \* F2 with daily peak if over 30 MHz. GMT used.

4-15: 2050, 33.00 *	29: 1418, KQD 313	8: 0202, KAK 606
20: 1607, KQC 884	30: 0212, KAI 927	2127, KIQ 999
2310, 35.91 *	2-3: 1723, KSJ 815	13: 0422, KQD 313
21: 2102, 33.00 *	7: 1435, KSJ 815	0436, KSC 645

As can be seen, the F2 spring season was poor and the Ls season is not off to much a start.

KAI 927 35.34	Denver, CO	KQD 313 35.50	Dayton, OH
KAK 606 35.58	Denver, CO	KSC 645 35.58	Chicago, IL
KIQ 999 35.34	Mobile, AL	KSJ 815 35.22	Fort Wayne, IN
KQC 884 35.-	Detroit, MI	(all are A2 tone pagers)	

Ottawa 10-cm solar flux and Fredericksburg (VA) A-Index

Mar 1: 72 15	8: 74 1	15: 74 16	22: 70 5	29: 69 23
2: 74 10	9: 75 5	16: 77 20	23: 68 14	30: 69 8
3: 75 7	10: 74 40	17: 76 12	24: 68 11	31: 71 10
4: 74 8	11: 74 46	18: 75 15	25: 68 8	
5: 72 35	12: 75 26	19: 74 10	26: 69 12	avg: 72.5
6: 73 23	13: 77 19	20: 73 10	27: 68 25	
7: 73 5	14: 76 18	21: 72 4	28: 68 23	

Apr 1: 70 7	8: 73 31	15: 69 5	22: 67 14	29: 72 1
2: 71 5	9: 73 35	16: 69 5	23: 68 24	30: 72 5
3: 72 10	10: 72 32	17: 69 5	24: 68 14	
4: 73 6	11: 72 26	18: 68 7	25: 71 9	avg: 70.6
5: 74 7	12: 70 17	19: 67 6	26: 71 7	
6: 74 13	13: 70 22	20: 67 12	27: 73 6	
7: 73 17	14: 69 18	21: 68 20	28: 74 3	

According to recent Swiss sunspot number predictions, Cycle 20 might reach minimum as early as January 1976 or in the spring.

Sets of Xeroxes of my 3-part Es series (VUD Dec 1972, Jan & Feb 1973) of 9 pages are available for 75¢.

73, Put WA5IYX





# TV CCI

Frank Aden, Jr.  
448 NE Olney Ave.  
Bend OR 97701

Deadline: 10th of the month  
Unidentified TV DX

June 1975

This month I will finish off the 1974 unids so by next month I will get into the 1975 DX season unids.

Clarke Ingram 5201 Colewood Dr., Pittsburgh PA 15236 (1974 unids)

Sat Jun 15 Es ch 3 1159 EDT--Promo for movie "High Road to Jamaica" to air Monday  
nite Jun 17. PTA: SE to S Central US. KTBS-3 & KIII-3  
prime suspect.

Scott Sampson 1025 14th Ave A, Orion IL 61273 (1974 unids)

Fri Jul 12 Tr ch 11 1145 CDT--"Mothers in Law" (Kay Ballard recognized). Promo for  
"That Girl" weeknights at 7 PM. Promo for "Boots Malone"  
at 1 PM. "Channel Eleven, The One to Watch For". PTA:  
Midwestern US.

Sun Jul 14 Tr ch 2 0728 CDT--Record Ad- "Miller, Musciland & Woolworth. Promo "Eye-  
witness News at 6 & 10" with Wes Sims. Promo for "ch  
21 Sunday afternoon Movie Special". At 0730 Gospel Son  
program with sermon. Address mention- Lexington KY.  
0800 Rex Humbard. "TV 21 ID". PTA: WHP, WFMJ, WPTA  
NE US. WHP has Rex Humbard at 0800 but shows nothing  
at 0730 in TVG. WPTA has a religious program at 0730  
& Rex Humbard at 0800 according to TVG. (FEA)

Jim Pizzi 300 Park, Orcutt CA 93454 (1974 unids)

Thu May 9 Tr ch 58 1820 PDT--relaying KNXT-2 to the North.

Sat May 11 Es ch 2 1245 PDT--SS with local variety to SW.

Sun May 12 Es ch 2 1532 PDT--Wildlife program (sea). To East.

Sun May 13 Es ch 4 1830 PDT--SS, Resolution Chart to E-SE. XHIT? XELN?

Mon May 13 Es ch 4 1656 PDT--SS, Canal 2 ID to SE.

Tue May 21 Es ch 4 1959 PDT--SS, Canal 2 ID to SE.

Mon May 13 Es ch 2 1657 PDT--Canal 8 ID out of cartoons to SE.

Wed May 22 Es ch 3 1507 PDT--RCA TP to North

Thu May 23 Es ch 4 2105 PDT--Musical movie about mums, at 2206 canal 2 net ID w/ start  
"24 Horas" news. PTA: to S, XHBS?

Thu May 23 Es ch 2 2138 PDT--Mystery Movie, SS, XHI?

ch 3 2150 PDT--20 khz CCI to KEYT, SS? XHQ?

ch 2 2218 PDT--Cowboy movie. SS.

ch 4 2219 PDT--Movie with subtitles. SS.



Paul Traska 64 Weaver Ave, Buffalo NY 14206 (1974 unids)

Wed Jul 3 Es ch 3 1730 EDT--Perry Mason, add-Rand Shoes, two locations Downtown &  
Mid Western also fair or rodeo in TX. PTA: TX  
KFDX has it (FEA).

ch 3 1800 EDT--High Chaparral with a add Uncle Bills. PTA: TX  
None of the TX TWGS list it (FEA).

ch 3 1600 EDT--\$10,000 Pyramid. KARD seen. Suspect KTVO. TVG does  
show it for KTVO (FEA).

John Combs 816 W. Harvard, Orlando FL 32804 (1974 unids)

Mon Apr 1 Tr ch 3 0602 CDT--Retna TP, not WRBL, WSAV since previously IDed. PTA:  
TN, NC with WRCB, WBTB possible.

Mon Apr 8 Tr ch 25 0812 EDT--Wedge TP--programs began 0815, WACS possible PTA: CA

June 1975

John Combs continued

Tue Apr 16 Es ch 4 1531 CDT--Begin "Jeannie", later NBC promo. PTA: SD, NE, IA KTIV?  
 ch 3 1610 CDT--"Jeannie", lokhs offset to WEDU. Same PTA, KGLO? KDLO?  
 ch 3 1627 CDT--Begin "BEVERLY HILLBILLIES". Same PTA  
 ch 3 1629 CDT--End delayed "Sesame Street" Prob. KLNE. TVG-negative.  
 Mon Apr 29 Es ch 4 1629 CST--"Sinbad" cartoons in SS. XEFB-3 in, XELN?  
 Fri May 3 Tr ch 6 0531 EDT--SSQ, CB, Resbars, tests to NE. WJBF?? PTA: GA not  
 WDBO, WGIX, WCTV. WRRG had programming.  
 ch 2 1723 CDT--"Star Trek" KPRC? PTA: TX  
 Sun May 5 Es ch 4 0836 CST--Retma with logo in center. Simon says not XHTV.  
 Sat Jun 15 MS ch 2 0533 EDT--ID Slide as drawn at left. Almost positive it is WJHK.  
 PTA: MI

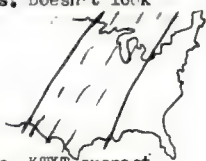
TV 2

WDBO LOC

ch 4 0851 EDT--3/4 cb pattern w/TT. (7-2.25-s). PTA: WI, MI, IN, OH, ONT  
 ch 3 0915 EDT--Delayed NBC "Jetsons". PTA: as above. WJMN checks neg.  
 WKYC?  
 ch 4 1255 EDT--Delayed NBC "Addams Family". PTA: as above. Suspect WTOM.  
 Thu Jun 20 Es ch 3 0930 EDT--Delayed NBC "Jackpot". PTA: NE US. N of Mason-Dixon Line  
 & S. Quebec.  
 ch 4 1200 CDT--Begin "Green Acres". PTA: MO, IA, IL area. Nothing checks  
 in TVG.  
 ch 4 1200 CDT--Begin "Dick Van Dyke". Same PTA. WHBF checks.  
 ch 4 1630 CDT--Begin "That Girl". Same PTA. TVG negative for this and  
 next 3.  
 ch 4 1630 CDT--Begin "Green Acres". Same PTA.  
 ch 3 1630 CDT--Begin "Andy Griffith". Same PTA.  
 ch 3 1714 CDT--Begin "Lucy Show". Same PTA.  
 Fri Jun 21 Es ch 4 0901 CDT--"Sesame Street". Non-PBS station. PTA: TX, either KGNC  
 or KGBT (no PBS affiliates there). KGBT checks (FEA).  
 ch 4 1120 EDT--"Concentration". PTA: Great Lakes Area.  
 Sun Jul 7 Es ch 3 1510 EDT--Bowling in FF-CBC-FF net as "Radio Canada" keyed on  
 screen. CBC ID at 1529. PTA: Ont, PQ. CKSO-1 or CJBR?  
 2-hop.  
 ch 3 1503 EDT--B.B. Mets-Giants on Mets Network. PTA: NY. WSIR?  
 ch 3 1518 EDT--Wall Street Week. PTA: PA or Canada. WPSX?  
 Wed Jul 10 Es ch 3 0800 CDT--Begin old cartoons ("Merrie Melodies"). At 0809 large  
 digital time keyed at bottom of screen.  
 ch 2 1007 CDT--Cooking show, recipe keyed on screen.  
 ch 4 1113 CDT--Newsmen with logo at left in background. Call on arm of  
 h, couldn't make out. Letters look like magnetic-ink  
 characters.  
 ch 4 1218 CDT--During newscast, "Comment: Guest" in background, man  
 speaking--Norman N. Gill.  
 ch 4 1601 EDT--Begin "The Forest Rangers". Suspect WTOM. TVG neg.  
 ch 5 1517 CDT--"Courtship of Eddie's Father"  
 ch 4 1519 CDT--"Phil Donahue"  
 ch 5 1629 CDT--End Andy Griffith. This or 1517 logging may be WNEM--  
 seen later.  
 ch 5 1532 CDT--Game show with moderator and 3 couples. Doesn't look  
 like any now in syndication,--Canada?  
 ch 4 1534 CDT--Delayed NBC "Jackpot"  
 ch 5 1535 CDT--"I Dream of Jeannie"  
 ch 3 1621 CDT--"Gilligan's Island"  
 ch 5 1625 CDT--"Lost in Space"  
 ch 3 1625 CDT--"Hogan's Heroes"

All unids for Jul 10 lie in marked off area on map.

Sat Nov 30 Es ch 5 1552 CST--Circular TP. Calls possibly above logo. KTXI suspect  
 but no answer from them--who else would run a TP at this  
 time? PTA: TX.





# TV QSL CORNER

KENNETH R. SIMON  
528 Pilgrim Road  
West Palm Beach, Fla. 33405  
JUNE 1975

First, response has been lousier! Only two reporters...so here they are:

OH WVIZ ch 25 4300 Brookpark Road, CLEVELAND 44134. L-signature unreadable. 92 days. R.W. Lord-Chicago.

MO KOMU ch 8 COLUMBIA 65201. L-mentions the importance of DX reports to station. W.J. REAGAN, dir. br. eng. 5 days. Scott Sampson-Champaign.

Now to the commercial:

I expect to see you all at the WTFA convention Aug. 1-3 in WEST PALM BEACH, FL. The downtown Holiday Inn has been designated as convention headquarters. We'll have the top floor. Special rates will be: single-\$14, double-\$18, triple-\$22 and quadruple-\$26 (or \$6.50 each!). The hotel has a swimming pool so don't forget your trunks. Registration is \$10 and covers two meals and beverages. (I'm negotiating to have some Coors sent in.) Station tours as well as interesting talks are planned. There are tons of things to do in the area. We're only 3 hours by car from Disney World. Door prizes are being assembled. (So far, 3 6-foot oak door have been donated.) I can only hope that many of you who might not come to the convention will stop by during your trip to Florida. Gasoline doesn't appear to be in short supply, AMTRAK is lowering some rates and the airlines have introduced No-Frills. The convention will also make a good jumping off place for side trips to Miami, the Bahamas and just a good time. We have facilities for showing slides, playing tapes of stations and probably can get a projector if anyone wants to bring 8 mm film (of DX only...unless they are...). An auction is planned so bring your old UHF converter or what have you and make a few bucks too. I know times are tough but this is the best time to come to Florida....YOU WILL BE THERE! Contact me for more information.

73's for now...AUGUST is fast approaching...

TV-CCI

June 1975

John Combs Continued (1974 & 1975 unids)

Mon Dec 16 Tr ch 11 0555 CST--3/4 CB pattern with logo in lower right as shown. In for a few seconds thru Tr & CATV hash, so could conceivably be a freak MS. It is not: WINK, WFSW, WTOG, WXIA or WTOX. Who uses this pattern with this logo?



Sun Dec 22 MS ch 2 0213 EST--5-second burst of movie "Houdini". PTA: E. & N.E. US. & S. ONT & PQ.

Sun Jan 26 Tr ch 10 0003 CST--Sign-off with NPssb, then unid 3/4 CB (7-2 1/2-s+) for a few minutes. Not WALA, WLCY, WPLG, KZTV. According to older skeds, WALB on later than this. PTA: Entire S.E. US from TX to GA.

ch 10 0122 CST--BE-TP with "10" in center. Put on for test, no call seen. Open audio carrier. Off after a few minutes. Not known whether this is same station as previous logging. PTA: the same as before.

ch 19 2210 CST--After WMAH s/off: weak signal, appeared to be movie. KAEC off yrs. ago, so KXIX only real possibility, flea-power & all. No answer yet from parent KIII. PTA: TX (Does anyone know their offset on 19?)

IDs for July 1974 TV-CCI-Johnson, ch 2 Prob. Habana, since Ciego de Avilla believed to be off by then.

Dyer, ch 2 Feb 18-not WTHS/WPBT.

IDS for April 1975 TV-CCI-Simon, ch 12, Ken reports it is WPEC's Dummy load.

ch 5, Ken has eliminated WKRG, WTTG, WAGA, WMAQ, WCVB, KQMO, KSD, WNEH, WHEN, WRAL, WLAT, KOCC, WMC, WLAC, WBAP, KENS. This leaves WOI, KALB, WPTZ, KRGV, WCIB, WDTV, WFRV.

That ends the 1974 unids and I am now ready for everyone to send their 1975 unids in. With the 1975 DX season in full session now I hope it will be one of the best for everybody and for everyone to get lots of new IDs & few unids. Until next month, 73's.

# FM QSL CORNER

Editor:  
Greg Kelley  
181 Hurst Ave. NE,  
Roanoke, Va. 24012

There will not be a FM QSL Column in the June VUD...as I have received only 2 reports! My thanks to Ken Simon for sending them. Unless more reports are received, the FM QSL Column will not exist. Ken Simon says to be sure and be in Florida for the 1975 WTEFA convention.

## TV DXING FROM THE ROOFTOP OF VIRGINIA

For several weeks we had been talking about taking a trip and it was my job to pick a spot. After being buried under tons of maps and brochures, I decided on Grayson Highlands State Park...the Montana of Virginia... and a little DXing on the side. So on the dark and cloudy morning of May 1, we loaded the car for our trip. I checked my things for the most important stuff. CB radio, SLR camera with assorted telephoto lenses, pocket VHF receiver, Panasonic TV with fully-charged battery. We are off!!

Around 10 AM we arrive at our first stopping place...Christiansburg, Va., located next to interstate 81...25 miles south of Roanoke. Hmmm...time for a little TV DX...I switched on the TV...nothing much came in...so I took the TV outside and gave it a try. Ch 7, 10, 15 in Roanoke were all 58. Ch 13 in Lynchburg at 72 miles was 4555. Not bad! Ch 6 in Bluefield at 40 miles was 4455, ch 12 in Winston-Salem at 72 miles was 4455. But old ch 2 in Greensboro at 85 miles was 2255, but they are always hard to get. Ch 79...relay of ch 15 in Roanoke, was 2255 at their 5-10 mi location around Blacksburg, of which I was 5 miles from. Now it was time to get rolling South in Dixie...

So down on I-81 we rolled...listening to the CB and every so often we added in our 2 cents worth, and hearing tales of smokies and beavers! So long about the Fort Chriswell exit, 60 miles air from Roanoke, I figured it was high time to see whats happening on the boob-tube. Before I forget, the elevation at the first stop was 2200 ft. Anyway, I checked the meter and our elevation was back to 2200 ft. Ch 7, 10, 15 in Roanoke were very good. Ch 13 Lynchburg at 105 miles were really holding their own. The first picture of ch 5 Bristol at 85 miles was seen. (only once being logged in Roanoke) Ch 12 in Winston-Salem and ch 6 in Bluefield were 4555. Of course there was some fading since we were moving on.

Our next stop was after we got off the interstate at Marion, Va... and had made our way to RT 16 heading East. Only thing of real interest was poor reception of WJHL-11 in Johnson City, Tn at 65 miles. First time that I have received them! Hmmm...WJHL has a translator on ch 13 near Marion. Well, here we go over the mountains at 3400 ft.....

Not having found motels, and raining, we decided to go on to Independence, Va., this was a dinky little town, nestled in a quiet valley at 2500 ft. The motel was 3 stories and we took the ground level...although not best for TV DXing. I took the VHF receiver and went outside...nothing! So while the TV battery was taking on juice, I took in some television for a detailed report. Ch 12 Winston-Salem at 65 miles was 4455 with ghost, ch 7-15 Roanoke at 85 miles were 2245, ch 26 WJHL Winston-Salem was 2245, ch 79 in Grayson County (relay of WJHL) was 4455. Or is it ch 80? Oh well... ch 8 in High Point at 85 miles 1145, ch 2 Greensboro at 90 miles was 2245, ch 6 Bluefield at 45 miles was 1145, and ch 19 WKPT Kingsport, Tn at 85 miles was 1145. First reception!



After DXing on my TV, I went outside to check the motel's antenna. They had two large...maybe 30 element VHF yagis stacked, pointed towards Winston-Salem. The motel's TV was nice...a RCA XL-100 with dedent tuning! But alas, no UHF antenna! The RCA got ch 12 with all 5's, ch 2 with all 5's, plus fair reception of WUNC 4 Chapel Hill at 135 miles, along with ch 3 Charlotte. Looks like a storm coming.... (it is)

The next morning we awoken at 6 AM, and I dress and run out the door. GOOD! The sky is clear, except for some early morning fog...so after a hardy breakfast of eggs and toast, we headed west.

We were heading for Grayson Highlands State Park, the articles says this looks like Montana. We shall see! Now this Rt 58 is something else, cause the top speed is under 25...talk about a crooked road! Finally, the road to the park..pointing upwards towards the sky..I can see how it got the name. We stopped several places for pictures, the park was deserted, except for several men working there, but we only saw them for a short time. We stopped at an elevation of 4200 ft..yes-it looks "somewhat" like Montana. It was cold!! After about 10 photos and turning blue from the cold, we crept upwards, to the top of Haw Orchard Mountain at 4800 ft. Mt. Rogers loomed in the distance...a massive mountain at 5729 ft, the highest point in Virginia. I grabbed the camera, and hopped on top of a big rock to take pictures. Hmmm...its a 1-o-n-g way down! Coming back to the car, I found my father doing a little CB DXing..Hmmm..pretty good range. I gave the TV a 1-minute test..it was packed with stations! Ch 14 way down in Hickory, NC looked like a local. But the best was yet to come.

After awhile we left-heading for Rt 600 and to the peaks of Whitetop mountain. DX heaven!!  $\frac{1}{2}$  later we were there.. A massive peak towering at 5520..and there we were...right on top. First thing on the list was some photos..I next tried the VHF receiver, and found several police stations rolling in. But no time for IDs..now for TV! WOW! ZAP! WHAT DX! And from inside the car at that! here is what we got...not taking note of signal strength.

ch 58 Concord,NC (100)  
ch 47 Norton,Va. (65)  
ch 40 Anderson SC (180)  
ch 33 Asheville,NC (100)  
ch 21 Asheville,NC (100)  
ch 18 Charlotte,NC (115)  
ch 12 Winston-Salem,NC (90)  
ch 6 Knoxville,Tn (150)  
ch 10 Knoxville,Tn (150)

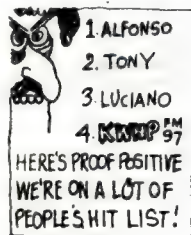
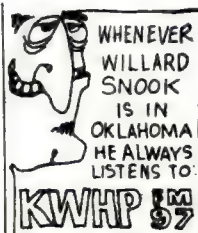
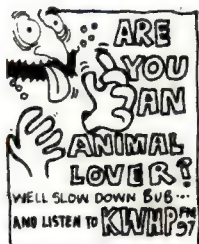
ch 19 Kingsport,Tn (60)  
ch 17 Linville,NC (40)  
ch 2 Sneedville,TN (100)  
ch 3 Charlotte,NC (115)  
ch 4 Chapel Hill,NC (160)  
ch 5 Bristol,Va. (35)  
ch 7 Spartanburg,SC (125)  
ch 8 High Point,NC (115)  
ch 9 Charlotte,NC (115)

ch 11 Johnson City  
at 55 mi.  
there were VHF's on  
top of each other!  
The SC stations  
were 4444..only  
3355 was 18 & 17  
21 & 33. All others  
were 5555.

Mt Rogers to the North blocked Roanoke. I got 5555 on ch 13 which was ETV, but where ??? Now think what a big outdoor antenna would do! It blows yer mind, doesn't it ! There is a campground on top of the mountain, and some-day I'll return..with an outdoor antenna and spend the night.

And so we left...back to Roanoke..only regret is that I could not get reports. Oh well.....

73's  
Greg



## Pioneer Model TX-9100 AM/FM Stereo Tuner

Sheldon Remington  
746 Alcatraz Ave.  
Oakland, CA 94609

For the dedicated FM Dxr there are certain important characteristics in a tuner. These can be simply stated:

1. Sensitivity (mono), particularly in the  $<10$   $\mu\text{V}$  region
2. Alternate- and adjacent-channel selectivity
3. Rejection on spurious images
4. Dial calibration
5. Capture ratio

When one spends a sizeable sum to buy a tuner with good DX specs, it's only sensible to pay attention to the hi-fi specs as well, to get maximum benefit when not DXing. The most important of these are:

1. Stereo signal-to-noise ratio
2. Stereo harmonic and IM distortion, especially in the treble region
3. Frequency response
4. Stereo separation (although 30 dB is plenty)
5. Convenience features: good-quality muting, tuning meters, appearance and human engineering, and (for some) an AM section

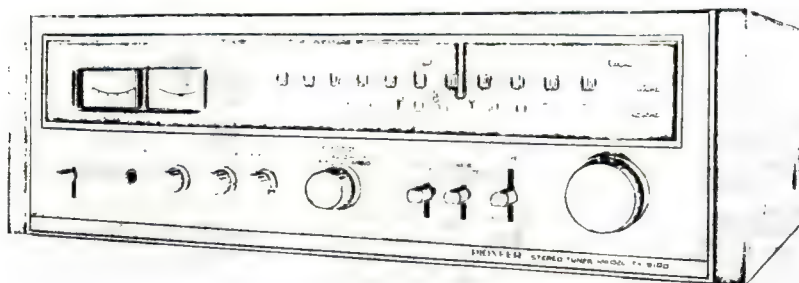
Happily, FM tuners have received a lot of engineering attention in the past several years, resulting in a number of extremely good tuners in the moderate price range (\$200-\$400), in addition to some rather exotic designs which emphasize unusual features like digital readout, logic tuning, etc., but which are not particularly superior in the quality department. The most prominent of the former category is the Pioneer TX-9100 which has been heavily advertised and also has been thoroughly measured and remeasured by the consumer magazines, with outstanding performance being found in every case.

For those who haven't read the ads or the test reports, here is a summary of the more noteworthy features and specs of the TX-9100. (See also the block diagram)

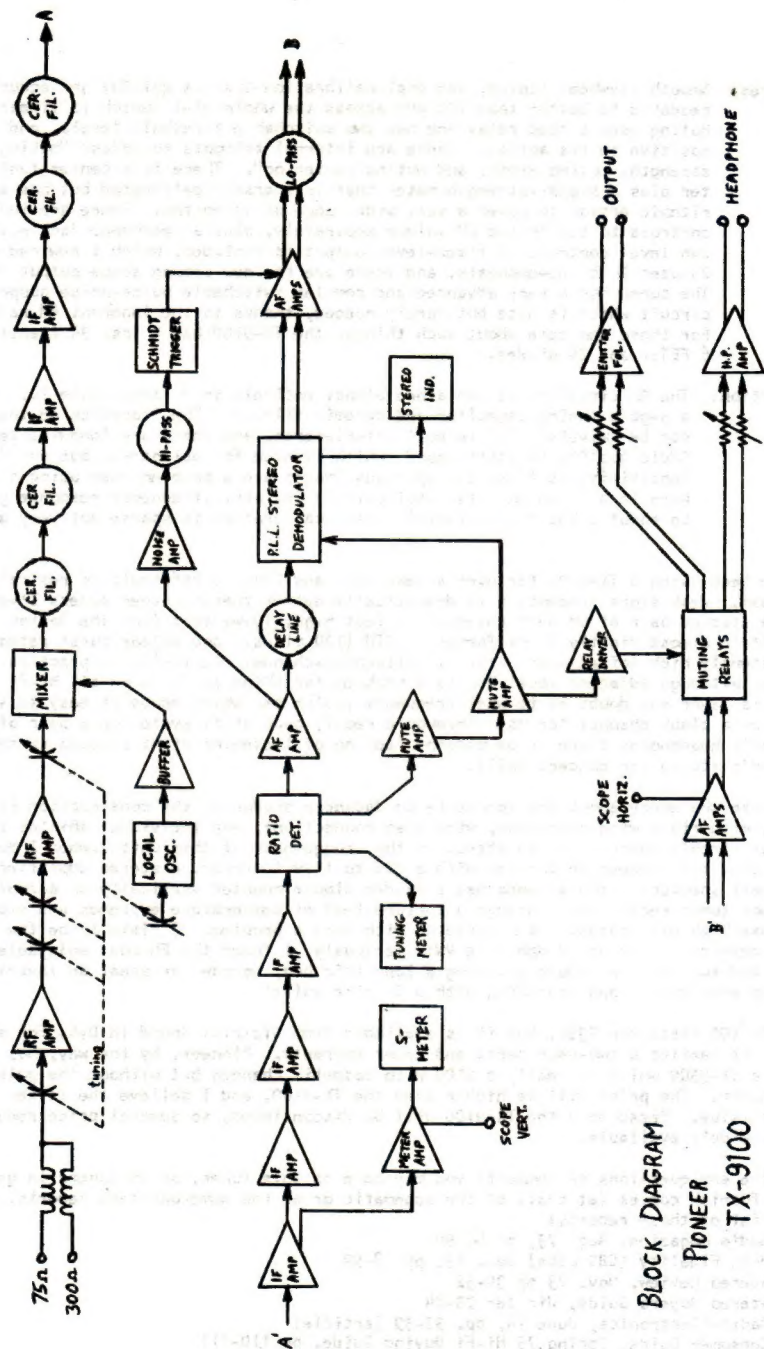
**Front End:** A five-gang tuning capacitor and the use of 3 dual-gate MOSFETs plus a buffer stage for the local oscillator result in these rather incredible specs: 1.5  $\mu\text{V}$  IHF sensitivity, with 50 dB quieting by 2.2  $\mu\text{V}$ ; spurious, image, and i.f. rejection of over 110 dB. The tuner is extremely stable, by the way -- drift is negligible under normal conditions.

**IF System:** Six integrated-circuit IF limiter/amp stages, with ceramic filters (which have steeper skirt characteristics than crystal or LC filters). IF specs: 75 dB S/N ratio, 1.0 dB capture ratio, 90-dB alternate channel selectivity, and 65 dB AM rejection (AM rejection suppresses multipath and ignition interference).

**Stereo Decoders:** Demodulation is done by a phase-locked-loop IC; the result is nearly perfect linearity...the stereo S/N ratio exceeds 70 dB; THD and IM distortion are less than 0.3%; and separation  $>35$  dB across the entire audio bandwidth.







BLOCK DIAGRAM  
 PIONEER  
 TX-9100  
 TUNER

Features: Smooth flywheel tuning, and dial-calibration that is quickly and accurately readable to better than 100 kHz across the whole dial (which is linear). Muting uses a reed relay and has two switchable threshold levels, and is positive in its action. There are internal trim pots to adjust "muting strength, muting width, and muting centering". There is a center-tuning meter plus a signal-strength meter that is sparsely calibrated but has a logarithmic action to cover a very wide range of strengths. There are individual controls to set AM and FM volume separately, plus a headphone jack with its own level control. A fixed-level output is included, which I rewired for 25-usec Dolby de-emphasis, and there are the now-common scope output jacks. The tuner has a very advanced and complex switchable pulse-noise suppressor circuit which is nice but rarely needed, thanks to the inherent AM rejection. For those who care about such things, the TX-9100 has 9 ics, 34 transistors, 6 FETs, and 26 diodes.

AM Section: The AM circuitry is contained almost entirely in a large-scale IC. It uses a 3-gang tuning capacitor and ceramic filters. The loopstick on the back can be swiveled 180° to null interference, and there are longwire terminals. Audio quality is fairly good, which is nice for ballgames, but not for DX. Sensitivity is fine, but spurious images are a problem when using a longwire in a 50-kw AM city...selectivity is fair...frequency response goes up to about 5 kHz (subjectively). Dial calibration is sparse but very accurate.

I have been using a TX-9100 for over a year now, and find it difficult to restrain my enthusiasm. Weak-signal reception is dramatically better than on other tuners I've used. With a stacked pair of CM 4408 antennas 30 feet high, 10-watters from the Boston area made it in almost nightly to my former CT QTH (120 miles), and meteor burst rates were consistently high (often over 50/hr.). Alternate-channel selectivity is practically infinite, although adjacent local QRM is a problem for DXing as it is on all hi-fi tuners. There is never any doubt as to what frequency you're on, which makes it easy to set the tuner on a blank channel for ns. Through a really good hi-fi system or a pair of electrostatic headphones there is an uncanny feeling of listening right through to the announcer's studio (or concert hall).

For those who worry about the longevity of Japanese products, the construction is quite solid, with rigid wire harnesses, wire-wrap connections, and individual shields for the various circuit boards. I can attest to the ruggedness of this unit...when I moved to CA I used the Pioneer in the car with a 12v-to-117v inverter, a stereo amplifier, and bookshelf speakers. The antenna was a folded dipole mounted vertically on a roof-rack. The poor tuner really went through a torture test of temperature extremes and vibration on those Utah dirt roads, but it held up with nary a problem. I claim to be the first to DX meteor-scatter at 55 mph in a VW! Seriously, I found the FM most enjoyable on the trip, and suggest that those planning a long trip beg, borrow, or steal an inverter, hook up your tuner, and try DXing with a Doppler shift!

The TX-9100 lists for \$350, but it is available from District Sound in D.C. for about \$220. It carries a two-year parts and labor warranty. Pioneer, by the way, has introduced a TX-9500 which is really a 9100 with cosmetic changes but without the pulse-noise suppressor. The price will be higher than the TX-9100, and I believe the latter is a better value. Presumably the TX-9100 will be discontinued, so special price reductions may be widely available.

I invite any questions or comments you may have on this tuner, or on tuners in general. I can furnish copies (at cost) of the schematic or of the numerous test reports. Here is a list of those reports:

Audio magazine, Aug. 73, pp 46-50  
High Fidelity (CBS Labs) Dec. 73, pp 58-59  
Stereo Review, Nov. 73 pp 30-32  
Stereo Buyers Guide, Winter 73-74  
Radio-Electronics, June 74, pp. 37-39 (article)  
Consumer Guide, Spring 75 Hi-Fi Buying Guide, pp 110-111  
FM Guide, May 74

73, Sheldon



## "INSTANT" PC BOARDS

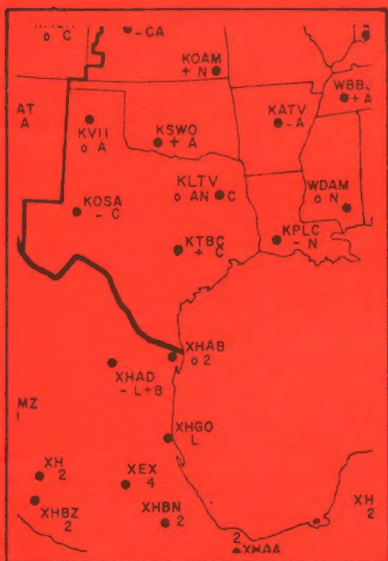
There have been dozens of articles written on "quick and easy" methods of fabricating printed circuit boards. They range from new ways to apply resist, to using pressure sensitive conductive tape. Yet, by far the easiest way of "producing" small project PC boards has seemingly gone unnoticed. That is, to use pre-etched and drilled commercial surplus PC boards.

Builders frequently see surplus PC boards at low cost, but pass them by. The normal reaction is that it would be too much trouble to fit a circuit design to the existing layout of the board. In many cases, this is certainly untrue! I've found what for me is a very easy method for this layout conversion. The first step is to make several Xerox or photocopies of the etched side of a PC board. Next, sit down with the schematic of your project and the photocopy and translate the circuit components in the schematic to workable sections of the PC board. Keep in mind that it's an easy task to drill extra lead holes or cut foil with an Xacto knife where necessary. Likewise, short jumper cables and/or copper tape can be added to the circuit. Your first layout will probably not work out; that's where the extra photocopies come in. Depending on the complexity of the project, two to four redrawings may be necessary.

Naturally, some PC boards lend themselves to this sort of recycling more than others. Fortunately, surplus PC boards are usually quite inexpensive, making it easy to build up a wide home inventory. Surplus stores and hamfests are about the two best sources of supply.

In summary, surplus pre-etched PC boards are the logical answer for providing instant PC boards for small electronic projects.

Morrie S. Goldman



Sample section of channel 7 map.

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WTFFDA, Box 163, Deerfield, IL 60015

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prepared by C. Ingram